

SEARCH REQUEST FORM

Requestor's Name: _____ Serial Number: _____
Date: _____ Phone: _____ Art Unit: _____

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

STAFF USE ONLY

Date completed: 03-14-03
Searcher: Beverly Edwards
Terminal time: 20
Elapsed time: _____
CPU time: _____
Total time: 25
Number of Searches: _____
Number of Databases: 1

Search Site

_____ STIC
_____ CM-1
_____ Pre-S

Type of Search

_____ N.A. Sequence
_____ A.A. Sequence
_____ Structure
_____ Bibliographic

Vendors

_____ IG Suite
_____ STN
_____ Dialog
_____ APS
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_____ SDC
_____ DARC/Questel
☒ Other CGN

GenCore version 5.1.4_p5_4578
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OM nucleic - nucleic search, using sw model

Run on: March 13, 2003, 14:39:14 ; Search time 417 Seconds
(without alignments)
9245.614 Million cell updates/sec

Title: US-10-036-041-1
Perfect score: 1712
Sequence: 1 ggcactgcgcgagagacc.....tggtaagataaaaaaaa 1712

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs; 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_101002.*

- 1: /SID22/gcgdata/geneseq/geneseq-emb1/NA1980.DAT.*
- 2: /SID22/gcgdata/geneseq/geneseq-emb1/NA1981.DAT.*
- 3: /SID22/gcgdata/geneseq/geneseq-emb1/NA1982.DAT.*
- 4: /SID22/gcgdata/geneseq/geneseq-emb1/NA1983.DAT.*
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- 10: /SID22/gcgdata/geneseq/geneseq-emb1/NA1989.DAT.*
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- 15: /SID22/gcgdata/geneseq/geneseq-emb1/NA1994.DAT.*
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- 19: /SID22/gcgdata/geneseq/geneseq-emb1/NA1998.DAT.*
- 20: /SID22/gcgdata/geneseq/geneseq-emb1/NA1999.DAT.*
- 21: /SID22/gcgdata/geneseq/geneseq-emb1/NA2000.DAT.*
- 22: /SID22/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT.*
- 23: /SID22/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT.*
- 24: /SID22/gcgdata/geneseq/geneseq-emb1/NA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1710.4	99.9	1712	21 AAA96336	cDNA encoding a no
2	1710.4	99.9	1760	21 AAA95787	Human immune syste
3	1696	98.1	1696	21 AAC64058	Human znacrp3 cDNA,
4	1695.4	99.0	1709	22 AAF93874	Human cDNA encodin
5	1549.6	90.5	1620	22 AAI199523	Human polynucleoti
6	1548.6	90.5	1792	22 AAI199230	Human polynucleoti
7	1527	89.2	1927	22 AAD12584	Human protein havi
8	1363.2	79.6	1608	24 ABK35221	Human cDNA encodi
9	1295.4	75.7	1799	22 AAI61016	Human polynucleoti

c

10	766.6	44.8	810	22	AAF94076	Primer specific fo
11	741	43.3	741	24	ABK35591	Gene encoding nove
12	696.2	40.7	1035	22	AAC99776	Skin cell cDNA, SE
13	696.2	40.7	1035	24	ABL34928	Rat cDNA isolated
14	696.2	40.7	1123	21	AZ61633	cDNA encoding rat
15	696.2	40.7	1123	21	AZ61730	cDNA encoding rat
16	696.2	40.7	1123	22	AAC99566	Skin cell cDNA, SE
17	696.2	40.7	1123	22	AAC99663	Skin cell cDNA, SE
18	696.2	40.7	1123	24	ABL34718	Rat cDNA isolated
19	696.2	40.7	1123	24	ABL34815	Rat cDNA isolated
20	695.8	40.6	1117	21	AAC64064	Mouse znacrp2 DNA,
21	659	38.5	960	24	ABK35590	Gene encoding nove
22	544.2	31.8	738	21	AAC64063	Human znacrp3 degen
23	498.6	29.1	552	22	AAF94215	Primer specific fo
24	452	26.4	471	21	AAC02874	Human secreted pro
25	452	26.4	472	20	AAX39551	Human secreted pro
26	345.6	20.2	472	23	ABV56781	Human prostate exp
27	208	12.1	546	22	AAF93419	cDNA encoding SRT
28	136.2	8.0	548	22	ABA60188	Human foetal liver
29	136.2	8.0	548	22	AAK08465	Human brain expres
30	136.2	8.0	548	22	AAK34347	Human bone marrow
31	136.2	8.0	548	22	AAI40069	Probe #8755 used t
32	136.2	8.0	548	24	ABS09051	Human genome-deriv
33	130	7.6	130	22	ABA72727	Human foetal liver
34	130	7.6	130	22	AAK21157	Human brain expres
35	130	7.6	130	22	AAK47313	Human bone marrow
36	130	7.6	130	22	AAI53148	Probe #21834 used
37	130	7.6	130	24	ABS21483	Human genome-deriv
38	121.2	7.1	900	22	AAF45100	Human secreted pro
39	80.8	4.7	909	22	AAC89872	Human znacrp7 degen
40	78.8	4.6	435	24	ABL38127	Human colon tumour
41	78.8	4.6	1280	22	AAI199525	Human polynucleoti
42	78.8	4.6	2257	24	AAI44063	Human genseq metab
43	78.8	4.6	2727	22	AAI16945	Novel human protei
44	78.8	4.6	2730	22	AAI16951	Novel human protei
45	78.8	4.6	2874	22	AAI16947	Novel human protei

ALIGNMENTS

RESULT 1
AAA96336

ID AAA96336 standard; cDNA; 1712 BP.

XX AC AAA96336;

XX DT 08-FEB-2001 (first entry)

XX DE cDNA encoding a novel polypeptide designated PRO1484.

XX KW Secreted protein; transmembrane protein; PRO1484; PRO4334; PRO1122;
KW PRO1889; PRO1890; PRO1887; PRO1785; PRO4353; PRO4405; PRO4356;
KW PRO4352; PRO4354; PRO4408; PRO5737; PRO4425; PRO5990; PRO6030;
KW PRO4424; PRO4422; PRO4430; PRO4499; tumour; obesity; diabetes;
KW insulinemia; kidney disorder; Bergers disease; nephropathy;
KW Schonelein-Henoch purpura; celiac disease; dermatitis herpetiformis;
KW Crohns disease; ss.

XX OS Homo sapiens.

XX Key Key Location/Qualifiers

FT CDS 77..817

FT sig_peptide /tag= a

FT sig_peptide /tag= b

XX WO200056889-A2.

XX PD 28-SEP-2000.

XX PF 01-MAR-2000; 2000WO-US05601.

XX

Jiang, D.
10/036041
segIDs 1 12 N-Geneseq

Db	708	TGAATGAAGGGCAAAATCAGATACATCCAGCAATCATGTGCTGCTGAAGCTAGCCAAAGG	767
Qy	721	GGATGAGGTTTGGCTGGGAATGGCGAATGGCGCTCTCCATGGGGACCACCAACGCTTCTC	780
Db	768	GGATGAGGTTTGGCTGGGAATGGCAATGGCGCTCTCCATGGGGACCACCAACGCTTCTC	827
Qy	781	CACCTTTGCAGGATTCCTGCTCTTTGAAACTAAGTAAATATATAGCTAGATAGCTCCAC	840
Db	828	CACCTTTGCAGGATTCCTGCTCTTTGAAACTAAGTAAATATATAGCTAGATAGCTCCAC	887
Qy	841	TTTGGGAAGACTTTGTAGCTGAGCTGATTTGTTACGATCTGAGGAACATTAAGTTTGAGG	900
Db	888	TTTGGGAAGACTTTGTAGCTGAGCTGATTTGTTACGATCTGAGGAACATTAAGTTTGAGG	947
Qy	901	GTTTTACATTCGTGTATTCCAAAAAATTAATGGTTGCAATTTGTTTCACGCTACAGGTACA	960
Db	948	GTTTTACATTCGTGTATTCCAAAAAATTAATGGTTGCAATTTGTTTCACGCTACAGGTACA	1007
Qy	961	CCAAATAATGTTGGACAATTCAGGGGCTCAGAGAATCAACCAACAAATAGTCTTCACAGA	1020
Db	1008	CCAAATAATGTTGGACAATTCAGGGGCTCAGAGAATCAACCAACAAATAGTCTTCACAGA	1066
Qy	1021	TGACCTTGACTAATATACCTCAGCATCTTTATCACCTCTTCCCTTGGCACCTTAAAGATTAAT	1080
Db	1068	TGACCTTGACTAATATACCTCAGCATCTTTATCACCTCTTCCCTTGGCACCTTAAAGATTAAT	1127
Qy	1081	TCCTCTCTGACGAGGTTGGAAATATTTTTTCTATCACAGAAGTCATTTGCCAAAGAAAT	1140
Db	1128	TCCTCTCTGACGAGGTTGGAAATATTTTTTCTATCACAGAAGTCATTTGCCAAAGAAAT	1187
Qy	1141	TTGACTACTCTGCTTTTAATTTAATACCAAGTTTTCAGGAACCCCTGAAGTTTAAAGTTCA	1200
Db	1188	TTGACTACTCTGCTTTTAATTTAATACCAAGTTTTCAGGAACCCCTGAAGTTTAAAGTTCA	1247
Qy	1201	TTATTCCTTTATAACATTTGAGAGAATCGAGTCTAGTGATATGCACAGGCTGGGGCAAGAA	1260
Db	1248	TTATTCCTTTATAACATTTGAGAGAATCGAGTCTAGTGATATGCACAGGCTGGGGCAAGAA	1307
Qy	1261	CAGGGGCACCTAGCTGCTTTATTAGCTAAATTTAGTGCCTTCGGTGTTCAGCTTAGCCCTTG	1320
Db	1308	CAGGGGCACCTAGCTGCTTTATTAGCTAAATTTAGTGCCTTCGGTGTTCAGCTTAGCCCTTG	1367
Qy	1321	ACCTTTTCCTTTTGATCCACAAAATACATTAAGTCTGAAATTCACATACAAATGCTATTT	1380
Db	1368	ACCTTTTCCTTTTGATCCACAAAATACATTAAGTCTGAAATTCACATACAAATGCTATTT	1427
Qy	1381	TAAAGTCAATAGATTTTACGTATAAAGTGCTTTGACACAGTAATGTGGTTGTAAATTTCTGT	1440
Db	1428	TAAAGTCAATAGATTTTACGTATAAAGTGCTTTGACACAGTAATGTGGTTGTAAATTTCTGT	1487
Qy	1441	ATGTTCCCCACATGCCCCCAACTTCGGATGTGGGTCAGGAGGTTTGAGGTTTCACATATT	1500
Db	1488	ATGTTCCCCACATGCCCCCAACTTCGGATGTGGGTCAGGAGGTTTGAGGTTTCACATATT	1547
Qy	1501	AACAAATGTCATAAATCTCATAGAGGTACAGTGCCTCAATAGATATTTCAAATGTTGCATG	1560
Db	1548	AACAAATGTCATAAATCTCATAGAGGTACAGTGCCTCAATAGATATTTCAAATGTTGCATG	1607
Qy	1561	TTGACCAGAGGATTTTATCTGAAGAACAATACACTATTATAAATACCTTAGAGAAAG	1620
Db	1608	TTGACCAGAGGATTTTATCTGAAGAACAATACACTATTATAAATACCTTAGAGAAAG	1667
Qy	1621	ATTTTGACCTGGCTTTAGATAAAACTGTGGCAAGAAAAATGTAATGAGCAATATATGGAA	1680
Db	1668	ATTTTGACCTGGCTTTAGATAAAACTGTGGCAAGAAAAATGTAATGAGCAATATATGGAA	1727
Qy	1681	ATAAACACACCTTTGTTTAAAGATAAAAAAAA	1712
Db	1728	ATAAACACACCTTTGTTTAAAGATAAAAAAAA	1759

RESULT 3

AAC64058
ID AAC64058 standard; cDNA; 1696 BP.
XX
AC AAC64058;
XX
DT 19-FEB-2001 (first entry)
XX
DE Human zacr3 cDNA, SEQ ID NO:1.
XX
KW Human zacr3; adipocyte complement related protein homologue;
KW ACRP30; C1q domain; collagen-like domain; energy balance modulation;
KW cellular metabolism; metabolic disorder; obesity; anorexia;
KW antimicrobial agent; infection; platelet aggregation inhibition;
KW adhesion; activation; vascular injury; antibacterial; antiviral; ss.
XX
OS Homo sapiens.
XX
PN WO2000063377-A1.
XX
PD 26-OCT-2000.
XX
PF 19-APR-2000; 2000WO-US10454.
XX
PR 20-APR-1999; 99US-0294943.
XX
PA (ZYMO) ZYMOGENETICS INC.
XX
PI Piddington CS, Bishop PD;
XX
DR WPI; 2000-665243/64.
XX
DR P-PSDB; AAB29580.
XX
Novel zacr3 polypeptides used to treat or prevent bacterial or viral
infections, for wound healing, improving blood flow, and to analyze
energy efficiency in mammals -
XX
Claim 31; Page 107-109; 123pp; English.
XX
The invention relates to the human zacr3 protein (AAB29580) and to
nucleic acids which encode it (AAC64058, AAC64063). zacr3 is a homologue
of adipocyte complement related protein (ACRP30) and contains a
collagen-like domain comprising Gly-Xaa-Xaa or Gly-Xaa-Pro repeats, and a
C-terminal C1q domain comprising 10 beta-strands. The zacr3 gene is
located on chromosome 5p12. The invention also relates to zacr3
fragments, fusion proteins containing zacr3 polypeptides,
zacr3-specific antibodies, expression constructs and host cells
comprising zacr3 nucleic acids, and methods of recombinant production of
zacr3. Human zacr3, and its agonists and antagonists may be used in the
study and modulation of cellular metabolism and energy balance in
mammals, and may therefore be used to treat disorders such as obesity and
anorexia, and conditions associated with these disorders. Due to its C1q
like domain, zacr3 and zacr3-containing fusion proteins may be useful
as antimicrobial agents, promoting lysis or phagocytosis of infectious
organisms such as bacteria or viruses. zacr3, its fragments, fusion
proteins, antibodies and activity modulators may also be used to inhibit
collagen-induced platelet aggregation, adhesion, or activation, and may
therefore have potential for promoting blood flow within the vasculature
of a mammal e.g., to treat injury to the vasculature or other collagenous
tissue. Human zacr3 and its antibodies may additionally be used to study
dimerisation and oligomerisation. The present sequence represents cDNA
encoding human zacr3.
XX
SQ Sequence 1696 BP; 482 A; 355 C; 386 G; 473 T; 0 other;

	Query Match	99.1%	Score 1696;	DB 21;	Length 1696;
	Best Local Similarity	100.0%;	Pred. No. 0;		
	Matches 1696;	Conservative	0;	Mismatches	0;
				Indels	Gaps
QY	9	CCCAGGAGACCCAGCGTCTCTGGAGCTCGCTGCTCTTCTCAGGAGACTCTCAGGCTCTGT	68		
Db	1	CCCAGGAGACCCAGCGTCTCTGGAGCTCGCTGCTCTTCTCAGGAGACTCTCAGGCTCTGT	60		
QY	69	TGGAATCATGCTTTGGAGGAGCTCATCTATTTGCAACTGCTGCTGTTGTTTTTCTTCC	128		

Db 1141 TCTGCTTTTAATTTAATACCCAGTTTTCAGGAACCCCTGAAGTTTAAAGTTTCATTTATTTCT 1200
Qy 1209 TATAACATTTGAGAGAAATCGGATAGTATGACAGGCTGGGCAAGAACAGGGCA 1268
Db 1201 TATAACATTTGAGAGAAATCGGATAGTATGACAGGCTGGGCAAGAACAGGGCA 1260
Qy 1269 CTAGTGGCTTATTTAGCTAAATTTAGTCCCTCCGTTGTCAGCTTAGCCCTTTGACCCCTTC 1328
Db 1261 CTAGTGGCTTATTTAGCTAAATTTAGTCCCTCCGTTGTCAGCTTAGCCCTTTGACCCCTTC 1320
Qy 1329 CTTTGTGATCCCAAAATACATTAACACTCTGAATTCACATACATCTATTTTAAAGTCA 1388
Db 1321 CTTTGTGATCCCAAAATACATTAACACTCTGAATTCACATACATCTATTTTAAAGTCA 1380
Qy 1389 ATAGATTTTGTAGCTATAAAGTCTTGACCCAGTAAATGTTGTTGTAATTTTGTATGTTCC 1448
Db 1381 ATAGATTTTGTAGCTATAAAGTCTTGACCCAGTAAATGTTGTTGTAATTTTGTATGTTCC 1440
Qy 1449 CCACATCCGCCCAACTTCCGATGTTGGGTGAGGCTGAGGTTGAGGTTGACATTTAACAAATG 1508
Db 1441 CCACATCCGCCCAACTTCCGATGTTGGGTGAGGCTGAGGTTGAGGTTGACATTTAACAAATG 1500
Qy 1509 TCATAAATATCTCATAGAGGTACAGTCCCAATAGATATTTCAATGTTGATGTTGACAC 1568
Db 1501 TCATAAATATCTCATAGAGGTACAGTCCCAATAGATATTTCAATGTTGATGTTGACAC 1560
Qy 1569 AGGATTTTATATCTGAAGACATACACTATTTAATAATACCTTAGAGAAAGATTTTGAC 1628
Db 1561 AGGATTTTATATCTGAAGACATACACTATTTAATAATACCTTAGAGAAAGATTTTGAC 1620
Qy 1629 CTGCTTTAGATAAACTGTGGCAAGAAAATGTAATGAGCAATATATGGAATAAACAC 1688
Db 1621 CTGCTTTAGATAAACTGTGGCAAGAAAATGTAATGAGCAATATATGGAATAAACAC 1680
Qy 1689 ACCTTTGTTAAAGATA 1704
Db 1681 ACCTTTGTTAAAGATA 1696

RESULT 4
AAF93874
ID AAF93874 standard; cDNA; 1709 BP.
XX AAF93874;
XX AAF93874;
XX 23-MAY-2001 (first entry)
XX Human cDNA encoding a membrane or secretory protein clone PSEC0232.
XX Human; secretory protein; membrane protein; vaccine; gene therapy;
XX rheumatoid arthritis; diabetes; ss.
XX Homo sapiens.
XX
XX EP1067182-A2.
XX 10-JAN-2001.
XX 07-JUL-2000; 2000EP-0114090.
XX
XX 08-JUL-1999; 99JP-0194179.
XX 11-JAN-2000; 2000JP-0118775.
XX 02-MAY-2000; 2000JP-0183766.
XX (HELI-) HELIX RES INST.
XX
XX Ota T, Isogai T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;
XX WPI; 2001-093989/11.
XX P-PSDB; AAB8847.
XX
XX Nucleic acids encoding secretory proteins/membrane proteins, useful in
XX gene therapy or as candidate target molecules in drug development -
PT

Db 61 TGAGATCATCTTTGGAGGAGCTCACTATTTGCAACTCTGCTGCTTTGTTTTCCTCC 120
Qy 129 CTTTGTGCTGTGCAAGATGAATACATGAGTCTTCCAAACCCGAGGACTTACCCCCAG 188
Db 121 CTTTGTGCTGTGCAAGATGAATACATGAGTCTTCCAAACCCGAGGACTTACCCCCAG 180
Qy 189 ACTGAGTAAGTGTGTCATGAGACTACAGCTTTGAGAGCTTACCAAGCCGCCCTTGGC 248
Db 181 ACTGAGTAAGTGTGTCATGAGACTACAGCTTTGAGAGCTTACCAAGCCGCCCTTGGC 240
Qy 249 CACGGGCCCTTCTGCGCATTCAGGAACCAATGGAACCAATGGCAACATGAGCCACTG 308
Db 241 CACGGGCCCTTCTGCGCATTCAGGAACCAATGGAACCAATGGCAACATGAGCCACTG 300
Qy 309 GTCATGAAGGAGCCAAAGGTGAGAGGCGGACAAAGGTGACCTGGGGCTCGAGGGAGC 368
Db 301 GTCATGAAGGAGCCAAAGGTGAGAGGCGGACAAAGGTGACCTGGGGCTCGAGGGAGC 360
Qy 369 GGGGCGACATGGCCCAAGAGAGAGAGGCTACCCGGGATTCACACCAAGACTTCAGA 428
Db 361 GGGGCGACATGGCCCAAGAGAGAGAGGCTACCCGGGATTCACACCAAGACTTCAGA 420
Qy 429 TTGCATTCATGCTTCTCTGCAACCCACTTCAGCAATCAGAACAGTGGGATTTATCTCA 488
Db 421 TTGCATTCATGCTTCTCTGCAACCCACTTCAGCAATCAGAACAGTGGGATTTATCTCA 480
Qy 489 GCAGTGTGAGACCAACATTTGAACTTCTTTGATGTCATGACTGGTAGATTTGGGGCC 548
Db 481 GCAGTGTGAGACCAACATTTGAACTTCTTTGATGTCATGACTGGTAGATTTGGGGCC 540
Qy 549 CAGTATCAGTGTGTATTTCTTCCACTTCAGCATGATGAAGCATGAGGATTTGAGGA 608
Db 541 CAGTATCAGTGTGTATTTCTTCCACTTCAGCATGATGAAGCATGAGGATTTGAGGA 600
Qy 609 TGTATGTACTTCTTGAACAACTGCAACAGTCTTCAGCATGTACAGCTATGAATGA 668
Db 601 TGTATGTACTTCTTGAACAACTGCAACAGTCTTCAGCATGTACAGCTATGAATGA 660
Qy 669 AGGCCAATCAGATACATCCAGCAATCATGCTGTGCTGAAGCTAGCCAAAGGGATGAG 728
Db 661 AGGCCAATCAGATACATCCAGCAATCATGCTGTGCTGAAGCTAGCCAAAGGGATGAG 720
Qy 729 TTTGGCTGCAATGGCAATGGCGCTCTCCATGGGACCAACAGCTTCCACCTTTG 788
Db 721 TTTGGCTGCAATGGCAATGGCGCTCTCCATGGGACCAACAGCTTCCACCTTTG 780
Qy 789 CAGGATTCCTGCTCTTTGAACTAAGTAATATATGACTAGAATAGCTTCCACTTTGGGA 848
Db 781 CAGGATTCCTGCTCTTTGAACTAAGTAATATATGACTAGAATAGCTTCCACTTTGGGA 840
Qy 849 AGACTTGTAGCTGAGTGTGTTAGCATCTGAGGACATTAAGTTGAGGGTTTACA 908
Db 841 AGACTTGTAGCTGAGTGTGTTAGCATCTGAGGACATTAAGTTGAGGGTTTACA 900
Qy 909 TTGCTGTATCAAAAATTTGTTGCTCAATGTTGTTCAAGCTACAGGTACACCAATAT 968
Db 901 TTGCTGTATCAAAAATTTGTTGCTCAATGTTGTTCAAGCTACAGGTACACCAATAT 960
Qy 969 GTTGGCAATTCAGGGCTCAGAGAATCAACCAACAAATAGTCTTCTCAGATGACCTTG 1028
Db 961 GTTGGCAATTCAGGGCTCAGAGAATCAACCAACAAATAGTCTTCTCAGATGACCTTG 1020
Qy 1029 ACTAATATCTACGACTCTTTATCAGCTTTTCCCTTGGCACTTAAAGATAATTCCTCT 1088
Db 1021 ACTAATATCTACGACTCTTTATCAGCTTTTCCCTTGGCACTTAAAGATAATTCCTCT 1080
Qy 1089 GAGCAGGTTGGAATATTTTTTCTATCAGAGTCAATTTGCAAGAAATTTTGACTAC 1148
Db 1081 GAGCAGGTTGGAATATTTTTTCTATCAGAGTCAATTTGCAAGAAATTTTGACTAC 1140
Qy 1149 TCTGCTTTTAAATTAATACAGTTTTCAGGAACCCCTGAAGTTTAAAGTTTCATTTCTT 1208
Db 1141 TCTGCTTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTTT

OY 1681 ATACACACCTTTGTT 1697
Db 1693 ATAACACACCTTTGTT 1709
RESULT 5
AAI99523
ID AAI99523 standard; cDNA; 1620 BP.
XX AC AAI99523;
XX 07-JAN-2002 (first entry)
XX Human polynucleotide SEQ ID NO 21.
XX Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;
KW antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;
KW vulnary; anticonvulsant; antibacterial; antifungal; antiparasitic;
KW cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;
KW neurological disease; infection; human; secreted protein; ss.
XX OS Homo sapiens.
XX.
PN WO20015173-A2.
XX 02-AUG-2001.
XX 17-JAN-2001; 2001WO-US01356.
XX 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216847.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 14-JUL-2000; 2000US-0217496.
PR 26-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220963.
PR 14-AUG-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225477.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226868.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 05-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230437.
PR 06-SEP-2000; 2000US-0230438.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231413.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0231988.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.
PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234997.
PR 25-SEP-2000; 2000US-0234998.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
PR 08-NOV-2000; 2000US-0246526.
PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246609.
PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 08-NOV-2000; 2000US-0246613.
PR 17-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.
PR 17-NOV-2000; 2000US-0249216.
PR 17-NOV-2000; 2000US-0249217.
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PR 17-NOV-2000; 2000US-0249244.

PR 17-NOV-2000; 2000US-0249245.
 PR 17-NOV-2000; 2000US-0249264.
 PR 17-NOV-2000; 2000US-0249265.
 PR 17-NOV-2000; 2000US-0249297.
 PR 17-NOV-2000; 2000US-0249299.
 PR 17-NOV-2000; 2000US-0249300.
 PR 01-DEC-2000; 2000US-0250160.
 PR 01-DEC-2000; 2000US-0250391.
 PR 05-DEC-2000; 2000US-0251030.
 PR 05-DEC-2000; 2000US-0251988.
 PR 05-DEC-2000; 2000US-0256719.
 PR 06-DEC-2000; 2000US-0251479.
 PR 08-DEC-2000; 2000US-0251856.
 PR 08-DEC-2000; 2000US-0251868.
 PR 08-DEC-2000; 2000US-0251869.
 PR 08-DEC-2000; 2000US-0251989.
 PR 08-DEC-2000; 2000US-0251990.
 PR 11-DEC-2000; 2000US-0254097.
 PR 05-JAN-2001; 2001US-0259678.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Barash SC, Ruben SM;
 XX
 DR WPI; 2001-451924/48.
 DR P-PSDB; AAM99925.
 XX
 PT New nucleic acids and polypeptides, useful for treating, preventing or
 PT ameliorating human disorders and diseases -
 XX
 PS Claim 1; SEQ ID NO 21; 465pp + Sequence Listing; English.
 XX
 CC The invention relates to novel human polynucleotides (AAI99513-AAI99538)
 CC and the encoded proteins (AAM9915-AAM9934) which are useful for
 CC preventing, treating or ameliorating medical conditions e.g. by protein
 CC or gene therapy. The genes are isolated from a range of human tissues
 CC disclosed in the specification. The nucleic acids, proteins, antibodies
 CC and (ant)agonists are useful in the diagnosis, treatment and prevention
 CC of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the
 CC adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver,
 CC lung, or urogenital; (b) immune disorders e.g. Addison's disease,
 CC allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis,
 CC diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid
 CC arthritis and ulcerative colitis; (c) cardiovascular disorders such as
 CC myocardial ischaemia; (d) wound healing; (e) neurological diseases
 CC e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as
 CC viral, bacterial, fungal and parasitic infections.
 CC
 CC Note: The sequence data for this patent did not form part of the
 CC printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 1620 BP; 485 A; 332 C; 360 G; 440 T; 3 other;

Query Match 90.5%; Score 1549.6; DB 22; Length 1620;
 Best Local Similarity 99.7%; Pred. No. 0;
 Matches 1549; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 399 GCTACCCGGGATTCCACGAACTTCAGATTGCATTTCATGGCTTCTCTGGCAACCCACT 458
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 QY 459 TCAGCAATCAGACAGTGGGATTATCTTCAGCAGTGTGTAGACCAACATTTGAAACTTCT 518
 DB 322 TCAGCAATCAGACAGTGGGATTATCTTCAGCAGTGTGTAGACCAACATTTGAAACTTCT 381
 QY 519 TTGATGTCAGTGTGTAGATTTCGGGGCCCGCAGTATCAGGTGTGTATTTCTTCACCTTCA 578
 DB 382 TTGATGTCAGTGTGTAGATTTCGGGGCCCGCAGTATCAGGTGTGTATTTCTTCACCTTCA 441
 QY 579 GCATGATGAAGCATGAGATGTTGAGGAAGTGTGTGTACCTTTATGCACAAATGGCAACA 638
 DB 442 GCATGATGAAGCATGAGATGTTGAGGAAGTGTGTGTACCTTTATGCACAAATGGCAACA 501
 QY 639 CAGTCTTCAGCATGTACAGCTATGAAATGAAGGCAATCAGATACATCCAGCAATCATG 698
 DB 502 CAGTCTTCAGCATGTACAGCTATGAAATGAAGGCAATCAGATACATCCAGCAATCATG 561
 QY 699 CTGTGCTGAAGCTAGCCAAAGGGGATGAGTTCGGCTGCGAATGGCAATGGCCTCTCC 758
 DB 562 CTGTGCTGAAGCTAGCCAAAGGGGATGAGTTCGGCTGCGAATGGCAATGGCCTCTCC 621
 QY 759 ATGGGACCACCAACGCTTCTCCACCTTTGAGGATTCCTGCTCTTTGAAACTTAAGTAAA 818
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 QY 819 TATATGACTAGAATAGCTTCCACTTTGGGGAAGACTTGTAGCTGAGCTGATTTGATAGAT 878
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 QY 879 CTGAGGAACATTAAGTGTAGGGTTCATCTGCTGATTTCAAAAATTTATGCTGCAA 938
 DB 742 CTGAGGAACATTAAGTGTAGGGTTCATCTGCTGATTTCAAAAATTTATGCTGCAA 801
 QY 939 TGTGTTTTCACCTACAGGTACACCAATAATGTTGGACAATTCAGGGGCTCAGAGAATCA 998
 DB 802 TGTGTTTTCACCTACAGGTACACCAATAATGTTGGACAATTCAGGGGCTCAGAGAATCA 861
 QY 999 ACCAATAATAGTCTTTCAGATGACCTTGACTAATATATCTACGATCTTTATCAGCTT 1058
 DB 862 ACCAATAATAGTCTTTCAGATGACCTTGACTAATATATCTACGATCTTTATCAGCTT 921
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 DB 922 TCCTTGGCACCTTAAAGATAATCTCTCTGACGAGCTTGGAAATATTTTTTCTATCA 981
 QY 1119 CAGAAGTCATTTGCAAGAATTTTACCTCTCTGACGAGCTTGGAAATATTTTTTCTATCA 1178
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 QY 1179 AACCCCTGAAGTTCATTTAGTTCATTTATTAACATTTGAGAGAATTCGATGATGA 1238
 DB 1042 AACCCCTGAAGTTCATTTAGTTCATTTATTAACATTTGAGAGAATTCGATGATGA 1101
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 DB 1102 TATCAGAGGGCTGGGCAAGAACAGGGGCTAGCTGCTTATTAGCTTAATTTAGTGCC 1161
 QY 1299 TCCGTGTTGAGCTTTGAGCTTTGACCTTTTCCCTTTGATCCACAAATACATTAAGCTCT 1358
 DB 1162 TCCGTGTTGAGCTTTGAGCTTTGACCTTTTCCCTTTGATCCACAAATACATTAAGCTCT 1221
 QY 1359 GAATTCACATACATGCTATTTTAAAGTCAATAGATTTTACCTATTAAGTCTTGACAG 1418
 DB 1222 GAATTCACATACATGCTATTTTAAAGTCAATAGATTTTACCTATTAAGTCTTGACAG 1281
 QY 1419 TAATGCTGTTGATTTTGTGTATGTTCCCGACATCGCCCCCACTTCGGATCTGGGGT 1478
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Db 1342 CAGAGGTTGAGTCTCAATATATACAAATGTCATAAATATCTCATAGAGGTACAGTGCCA 1401
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 ID AAI59230 standard; cDNA; 1792 BP.
 XX
 AC AAI59230;
 XX
 DT 22-OCT-2001 (first entry)
 XX
 DE Human polynucleotide SEQ ID NO 1433.
 XX
 KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
 KW peripheral nervous system; neuropathy; central nervous system; CNS;
 KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
 KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
 KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
 KW leukaemia; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200153312-A1.
 XX
 PD 26-JUL-2001.
 XX
 PF 26-DEC-2000; 2000WO-US34263.
 XX
 PR 21-JAN-2000; 2000US-0488725.
 PR 25-APR-2000; 2000US-0552317.
 PR 09-JUL-2000; 2000US-0598042.
 PR 19-JUL-2000; 2000US-0620312.
 PR 03-AUG-2000; 2000US-0653450.
 PR 14-SEP-2000; 2000US-0662191.
 PR 19-OCT-2000; 2000US-0693036.
 PR 29-NOV-2000; 2000US-0727344.
 XX
 PA (HYSE-) HYSEQ INC.
 XX
 PI Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
 PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;
 PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;
 XX
 DR WPI; 2001-442253/47.
 DR P-PSDB; AAM40074.
 XX
 PT Novel nucleic acids and polypeptides, useful for treating disorders
 PT such as central nervous system injuries -
 XX
 PS Claim 1; SEQ ID NO 1433; 10078pp; English.
 XX
 CC The invention relates to human nucleic acids (AAI57798-AAI61369) and
 CC the encoded polypeptides (AAM38642-AAM42213) with nootropic,
 CC immunosuppressant and cytostatic activity. The polynucleotides are useful
 CC in gene therapy. A composition containing a polypeptide or polynucleotide
 CC of the invention may be used to treat diseases of the peripheral nervous
 CC system, such as peripheral nervous injuries, peripheral neuropathy and
 CC localised neuropathies and central nervous system diseases, such as
 CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
 CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the

CC utilisation of the activities such as: Immune system suppression.
 CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
 CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
 CC assays for receptor activity, arthritis and inflammation, leukaemias and
 CC C.N.S disorders.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification.
 XX
 SO Sequence 1792 BP; 541 A; 352 C; 393 G; 506 T; 0 other:
 Query Match 90.5%; Score 1548.6; DB 22; Length 1792;
 Best Local Similarity 99.7%; Pred. No. 0;
 Matches 1551; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 Qy 155 ATGAGTCTCCACAAACCGGAGGACTACCCAGACTCCAGACTGAGTGTGTCATGAGAC 214
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 Db 298 TACAGCTTTTCGAGGCTACCAAGGCCCTTGGGCCACCGGGCCCTCTGGCATTCACGA 357
 Qy 275 AACCATGGAACAATGGAACAATGGAACAATGGAACAATGGAACAATGGAACAATGGAACA 334
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 Qy 335 GGCACAAAGTGACCTGGGCTCGAGGGAGCGGGGAGCATGCGCCCAAGAGAGAG 394
 Db 418 GGCACAAAGTGACCTGGGCTCGAGGGAGCGGGGAGCATGCGCCCAAGAGAGAG 477
 Qy 395 AAGGCTACCGGGGATTCACAGAACTTCAGATTGCAATTCATGCTCTCTGCAACC 454
 Db 478 AAGGCTACCGGGGATTCACAGAACTTCAGATTGCAATTCATGCTCTCTGCAACC 537
 Qy 455 CACTTCAGCAATCAGAACAGTGGGATTTCTTCAGCAGTGTGAGACCAACAATTCGAAAC 514
 Db 538 CACTTCAGCAATCAGAACAGTGGGATTTCTTCAGCAGTGTGAGACCAACAATTCGAAAC 597
 Qy 515 TCTTTGATGTGATGAGTGTGAGTGTGGGCCCCAGTATCAGTGTGTATTTCTTCACC 574
 Db 598 TCTTTGATGTGATGAGTGTGAGTGTGGGCCCCAGTATCAGTGTGTATTTCTTCACC 657
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 Qy 695 CATGCTGTGCTGAAGTACCAAGGAGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG 754
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 Qy 995 ATCAACCAACAAATAGTCTTCTCAGATGACCTTTGACTAATATACATCATCTTTATCAC 1054
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DB 1198 ATCAGAGAGTCATTGCAAGAAATTTGACCTACTCTGCTTTAAATTAACCAAGTTT 1257
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DB 1318 GTGATATGACAGGCTGGGGCAAGAACAGGCGACTAGCTGCTTATTAGCTAATTTAGT 1377
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DB 1438 CTCTCAATTCACATACATGCTATTTTAAAGTCAATAGATTTAGCTATATAAGTCTTGA 1497
QY 1415 CCAGTAATGTGTTGCTAATTTTGTCTATGTTTCCCCACATCGCCCAACTTCGGATGTG 1474
DB 1498 CCAGTAATGTGTTGCTAATTTTGTCTATGTTTCCCCACATCGCCCAACTTCGGATGTG 1557
QY 1475 GGGTCAGGAGTTGAGTTCACTATTACAAATGTCATAAATATCTATAGAGGTACAGT 1534
DB 1558 GGGTCAGGAGTTGAGTTCACTATTACAAATGTCATAAATATCTATAGAGGTACAGT 1617
QY 1535 GCCATATGATTTCAAAATGTTGCTATGTTGACGAGGATTTTATATCTGAGACATAC 1594
DB 1618 GCCATATGATTTCAAAATGTTGCTATGTTGACGAGGATTTTATATCTGAGACATAC 1677
QY 1595 ACTATTAATAATACCTTAGAGAAAGATTTTGACCTGCTTTAGATAAACTGTGGCAAG 1654
DB 1678 ACTATTAATAATACCTTAGAGAAAGATTTTGACCTGCTTTAGATAAACTGTGGCAAG 1737
QY 1655 AAAATGTAATGAGCAATATATGGAATAAACACACCTTTGTTAAAGATAAAAA 1709
DB 1738 AAAATGTAATGAGCAATATATGGAATAAACACACCTTTGTTAAAGATAAAAA 1792
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RESULT 7

AADI2584

ID AADI2584 standard; cDNA: 1927 BP.

XX AC AADI2584;

XX DT 25-SEP-2001 (first entry)

XX DE Human protein having hydrophobic domain encoding cDNA clone HP10781.

Human; hydrophobic domain; gene therapy; nutritional supplement; cell proliferation; immunomodulatory; autoimmune disorder; antimicrobial; multiple sclerosis; rheumatoid arthritis; insulin-dependent diabetes; haematopoiesis; tissue growth activity; Parkinson's disease; cytostatic; Huntington's disease; Alzheimer's disease; chemotactic; chemokinetic; haemostatic; thrombolytic; tumour growth inhibitor; anabolic; contraceptive; antiinfertility; antiinflammatory; ss.

OS Homo sapiens.

XX FH Key Location/Qualifiers

XX CDS 89..760

XX FT /*tag= a

XX FT /product= "Human protein having hydrophobic domain"

XX FT /note= "CDS is specifically is claimed in claim 3"

XX FT 89..157

XX FT sig_peptide

XX FT /*tag= b

mat_peptide 158..757
/*tag= c
/product= "Mature human protein with hydrophobic domain"

W0200149728-A2.
12-JUL-2001.
28-DEC-2000; 2000WO-JP09359.
06-JAN-2000; 2000JP-0000585.
06-JAN-2000; 2000JP-0000588.
11-JAN-2000; 2000JP-0002299.
03-FEB-2000; 2000JP-0026862.
03-MAR-2000; 2000JP-0058367.
(PROT-) PROTEGENE INC.
(SAGA) SAGAMI CHEM RES CENT.
Kato S, Kimura T;
WPI; 2001-418355/44.
P-PSDB; AAE06589.

Human proteins with hydrophobic domains and the nucleic acids encoding them, useful for preventing diagnosing and treating e.g. cancer, Alzheimer's and inflammation -

Claim 4; Page 352-354; 563pp; English.

The present sequence is human protein with hydrophobic domain encoding cDNA clone HP10781. The polynucleotide and polypeptide of the invention may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate polypeptide expression. The polynucleotides may be used to produce the polypeptide, by inserting the nucleic acids into a host cell and culturing the cell to express the protein. The polynucleotides and its complementary sequences may also be used as DNA probes in diagnostic assays and also used in gene therapy. The polypeptides may also be used as antigens in the production of antibodies and in assays to identify modulators of polypeptide expression and activity. The polypeptides and nucleic acids may be used as nutritional supplements, to modulate cytokine and cell proliferation activity, to modulate immune stimulation or suppression (e.g. for the treatment of microbial infections and autoimmune disorders such as multiple sclerosis, rheumatoid arthritis and insulin-dependent diabetes), to modulate haematopoiesis, to modulate tissue growth activity (e.g. for the treatment of Parkinson's disease, Huntington's disease and Alzheimer's disease), to modulate actin and inhibit activity (e.g. for controlling fertility), to modulate chemotactic and chemokinetic activity, to modulate haemostatic and thrombolytic activity, to modulate receptor ligand activity, to modulate inflammation and to inhibit tumour growth.

Sequence 1927 BP; 550 A; 416 C; 452 G; 509 T; 0 other;

Query Match 89.2%; Score 1527; DB 22; Length 1927;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1538; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 159 AGTCTCCACAAACCGGAGGACTACCCCGAGACTGACGTAACTGTTGTCATGGAGACTACA 218
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QY 219 GCTTTCAGGCTACCAAGGCCCTCTGGCCACCGGGCCCTCTCTGGCATTCAGGAARACC 278
|||||
DB 450 GCTTTCAGGCTACCAAGGCCCTCTGGCCACCGGGCCCTCTCTGGCATTCAGGAARACC 509
|||||

QY 279 ATGGAACAATGGCAACAATGGAGCCACTGTCATGAAGGAGCCAAAGGTGAGAGGGCG 338
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DB 510 ATGGAACAATGGCAACAATGGAGCCACTGTCATGAAGGAGCCAAAGGTGAGAGGGCG 569
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QY 339 ACAAGGTGACCTGGGGCCTCTGAGGGGAGGGGGGCGGAGCATGGCCCAAGAGGAGAGG 398
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DB 570 ACAAGGTGACCTGGGGCCTCTGAGGGGAGGGGGGCGGAGCATGGCCCAAGAGGAGAGG 629
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QY 399 GCTACCCGGGATTCACACAGAACTTCAGATTCGATTCATGCTTCCTGTGCAACCCACT 458
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 Db 690 TCAGCAATCAGACAGTGGGATTCATCTTCAGCAGTGTGAGACCAACATTCGAACTTCT 748
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 Db 749 TTGATGTCATGACGTGGGATTCGAGGAGTGTGAGTGTGATTCCTTCACCTTCA 808
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 QY 639 CAGTCTTCAGCATCTACAGCTATCAATGAAGGCAATCAGATACATCCAGCAATCATG 698
 Db 869 CAGTCTTCAGCATCTACAGCTATCAATGAAGGCAATCAGATACATCCAGCAATCATG 928
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 Db 1109 CTGAGGAACATTAAGTTGAGGTTTACATGCTGATTTCAAAAAATTTATGCTGCAA 1168
 QY 939 TGTGTTACGCTACAGTACACCAATTAATGTTGGCAATTCAGGGGCTCAGAGAATCA 998
 Db 1169 TGTGTTACGCTACAGTACACCAATTAATGTTGGCAATTCAGGGGCTCAGAGAATCA 1228
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 Db 1229 ACCAAAAATAGTCTCTCAGATGACCTTGACTAATATACCTCAGCATCTTTATCAGCTTT 1298
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 Db 1289 TCCTTGGCACCCTAAAAGATAATTCCTCTGACGAGGTTGGAAATATTTTTTCTATCA 1348
 QY 1119 CAGAAGTCATTTGCAAGAATTTTGACTACTCTGCTTTTAAATTAATACCAAGTTTTCAGG 1178
 Db 1349 CAGAAGTCATTTGCAAGAATTTTGACTACTCTGCTTTTAAATTAATACCAAGTTTTCAGG 1408
 QY 1179 AACCCCTGAAGCTTTAAGTTTCAATTTATTAACATTTGAGAGATTCGGATGAGTGA 1238
 Db 1409 AACCCCTGAAGCTTTAAGTTTCAATTTATTAACATTTGAGAGATTCGGATGAGTGA 1468
 QY 1239 TATGACAGGGCTGGGCAAGAACAGGGGCACTAGCTGCTTATTTAGCTAATTTAGTGCC 1298
 Db 1469 TATGACAGGGCTGGGCAAGAACAGGGGCACTAGCTGCTTATTTAGCTAATTTAGTGCC 1528
 QY 1299 TCCGTGTTACGCTTAGCCTTTGACCCCTTCTTTTGTATCCACAAATACATTAACACTCT 1358
 Db 1529 TCCGTGTTACGCTTAGCCTTTGACCCCTTCTTTTGTATCCACAAATACATTAACACTCT 1588
 QY 1359 GAATTCACATCAATGCTATTTTAAAGTCAATAGATTTTACCTATAAAGTCTTTGACCA 1418
 Db 1589 GAATTCACATCAATGCTATTTTAAAGTCAATAGATTTTACCTATAAAGTCTTTGACCA 1648
 QY 1419 TAATGTGGTGAATTTTGTATGTTCCCCACATCGCCCCCACTTCGGATGCGGGT 1478
 Db 1649 TAATGTGGTGAATTTTGTATGTTCCCCACATCGCCCCCACTTCGGATGCGGGT 1708

QY 1479 CAGGAGTTGAGTTCACTATTACAAATGTCATAAATCTCATAGAGGTACAGTGCCA 1538
 Db 1709 CAGGAGTTGAGTTCACTATTACAAATGTCATAAATCTCATAGAGGTACAGTGCCA 1768
 QY 1539 ATAGATATTCAATGTTGCTGTTGACGAGGAGGATTTTATATCTGAAGACATACACTA 1598
 Db 1769 ATAGATATTCAATGTTGCTGTTGACGAGGAGGATTTTATATCTGAAGACATACACTA 1828
 QY 1599 TTAATAATACCTTTAGAGAAAGATTTTGACCTGCTTTAGATAAACTGTGGCAAGAAA 1658
 Db 1829 TTAATAATACCTTTAGAGAAAGATTTTGACCTGCTTTAGATAAACTGTGGCAAGAAA 1888
 QY 1659 ATGTAATGAGCAATATATGGAATTAACACACACCTTTGTT 1697
 Db 1889 ATGTAATGAGCAATATATGGAATTAACACACACCTTTGTT 1927

RESULT 8
 ABK35221
 ID -ABK35221 standard; cDNA: 1608 BP.
 XX
 AC ABK35221;
 XX
 DT 08-MAY-2002 (first entry)
 XX
 DE Human cDNA encoding secreted protein #359.
 XX
 KW Human; secreted protein; gene: ss; nutritional supplement; haemophilia;
 KW viral infection; bacterial infection; fungal infection; diabetes; asthma;
 KW autoimmune disorder; rheumatoid arthritis; multiple sclerosis; tumour;
 KW autoimmune thyroiditis; allergic reaction; neurodegenerative disease;
 KW Alzheimer's disease; Parkinson's disease; liver fibrosis; cancer; ulcer;
 KW coagulation disorder; inflammatory disorder; Crohn's disease; incision;
 KW tissue regeneration; wound healing; burn; haematopoiesis;
 KW myeloid cell deficiency; lymphoid cell deficiency.
 XX
 OS Homo sapiens.
 XX
 PN W0200177288-A2.
 XX
 PD 18-OCT-2001.
 XX
 XX 29-MAR-2001; 2001WO-US10224.
 XX
 PF 06-APR-2000; 2000US-195582P.
 XX
 PR (GEMY) GENETICS INST INC.
 XX
 PA Wong GG, Clark HF, Fectel K, Agostino MJ, Howes SH, Resnick RJ;
 PI Gullukota K, Graham JR;
 XX
 DR WPI; 2002-179321/23.
 XX
 XX Five hundred and ninety two polynucleotides derived from a variety of
 human tissue sources which encode secreted proteins, useful for
 treating immune deficiencies and disorders such as autoimmune disorders

Claim 1; Page 261-262; 372pp; English.
 The invention relates to 592 polynucleotides which have been derived from
 a variety of human tissue sources and which encode novel secreted
 proteins. The polynucleotides can be used as probes for the
 identification and isolation of full length cDNA and genomic DNA. The
 polynucleotides and proteins can also be used as nutritional supplements.
 The proteins are useful in the treatment of various immune deficiencies
 and disorders such as viral infections, bacterial infections, fungal
 infections, autoimmune disorders (e.g. rheumatoid arthritis, multiple
 sclerosis, autoimmune thyroiditis and diabetes) and allergic reactions
 and conditions (e.g. asthma). They are also useful for treating
 neurodegenerative diseases (e.g. Alzheimer's disease, Parkinson's
 disease), liver fibrosis, coagulation disorders (e.g. haemophilia),
 inflammatory disorders (e.g. Crohn's disease) and tumours. They are also

CC useful for tissue regeneration, for wound healing and in the treatment of
 CC burns, incisions and ulcers. The proteins are also useful for regulating
 CC hematopoiesis and for treating myeloid or lymphoid cell deficiencies.
 CC Sequences ABK34863-ABK35454 represent polynucleotides of the invention.
 XX
 SQ

Sequence 1608 BP; 487 A; 305 C; 339 G; 477 T; 0 other;
 Query Match 79.6%; Score 1363.2; DB 24; Length 1608;
 Best Local Similarity 99.8%; Pred. No. 0;
 Matches 1365; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 337 CGACAAAGGTGACCTGGGGCTCGAGGGAGCGGGGCGAGCATGCCCAAGAGAGAA 396
 Db 1 CGACAAAGGTGACCTGGGGCTCGAGGGAGCGGGGCGAGCATGCCCAAGAGAGAA 60
 Qy 397 GGGTACCCGGGATTCACACAGACATTCAGATTGCAATTCATGCTCTCGGCAACCA 456
 Db 61 GGGTACCCGGGATTCACACAGACATTCAGATTGCAATTCATGCTCTCGGCAACCA 120
 Qy 457 CTTGAGCAATCAGAACAGTGGGATTTCTTCAGCAGAGTGTTCAGACCAACATTTGGAACCTT 516
 Db 121 CTTGAGCAATCAGAACAGTGGGATTTCTTCAGCAGAGTGTTCAGACCAACATTTGGAACCTT 180
 Qy 517 CTTTGATCTCATGACTGGTGGGATTTGGGGCCCCAGTATCAGGTGTGTATTTCTTCACCTT 576
 Db 181 CTTTGATCTCATGACTGGTGGGATTTGGGGCCCCAGTATCAGGTGTGTATTTCTTCACCTT 240
 Qy 577 CAGCATGATGAGCATGAGGATTTGAGGAAGTGTATGTGTACCTTATGCAATGGCAA 636
 Db 241 CAGCATGATGAGCATGAGGATTTGAGGAAGTGTATGTGTACCTTATGCAATGGCAA 300
 Qy 637 CACAGTCTTACGATGTACAGCTATGAAATGAAGGCAAAATCAGATCATCCAGCAATCA 696
 Db 301 CACAGTCTTACGATGTACAGCTATGAAATGAAGGCAAAATCAGATCATCCAGCAATCA 360
 Qy 697 TGCTGTGCTGAAGCTAGCCTCACTTTGGGGAAGCTGTGTAGCTGAGCTGATTTGTTACG 756
 Db 361 TGCTGTGCTGAAGCTAGCCTCACTTTGGGGAAGCTGTGTAGCTGAGCTGATTTGTTACG 420
 Qy 757 CCATGGGGACCAACAGCTTCTCCACCTTTGCGAGGATTCCTGCTCTTTGAACTAAGTA 816
 Db 421 CCATGGGGACCAACAGCTTCTCCACCTTTGCGAGGATTCCTGCTCTTTGAACTAAGTA 480
 Qy 817 AATATATGACTAGAAATAGCTCCACTTTGGGGAAGCTGTGTAGCTGAGCTGATTTGTTACG 876
 Db 481 AATATATGACTAGAAATAGCTCCACTTTGGGGAAGCTGTGTAGCTGAGCTGATTTGTTACG 540
 Qy 877 ATCTGAGGAACATTAAGTTGAGGGTTTACATTTGCTGTATTCAAAAAATTTATGGTTGC 936
 Db 541 ATCTGAGGAACATTAAGTTGAGGGTTTACATTTGCTGTATTCAAAAAATTTATGGTTGC 600
 Qy 937 AATGTTGTTACGCTACAGGTACACCAATATGTTGGCAATTCAGGGGCTCAGAGAAAT 996
 Db 601 AATGTTGTTACGCTACAGGTACACCAATATGTTGGCAATTCAGGGGCTCAGAGAAAT 660
 Qy 997 CAACCAAAAATAGCTTCTCAGATGACCTTTGACTAATATATACATCTTTATCACTC 1056
 Db 661 CAACCAAAAATAGCTTCTCAGATGACCTTTGACTAATATATACATCTTTATCACTC 720
 Qy 1057 TTTCTCTGGCACCTTAAAGATAATTCCTCTGACGAGGTTGGAATATTTTTTCTAT 1116
 Db 721 TTTCTCTGGCACCTTAAAGATAATTCCTCTGACGAGGTTGGAATATTTTTTCTAT 780
 Qy 1117 CACAGAGTCAATTTGCAAGAAATTTGACTACTCTGCTTTTAAATTAATACCACTTTCA 1176
 Db 781 CACAGAGTCAATTTGCAAGAAATTTGACTACTCTGCTTTTAAATTAATACCACTTTCA 840
 Qy 1177 GGAACCCCTGAAGTTTAAAGTTCAATTTCTTTTATAACATTTGAGAGATCGGATGTAGT 1236
 Db 841 GGAACCCCTGAAGTTTAAAGTTCAATTTCTTTTATAACATTTGAGAGATCGGATGTAGT 900
 Qy 1237 GATATGACAGGGCTGGGGCAAGAACAGGGGCATCTAGCTGCTTATTTAGCTAAATTTAGTGC 1296

Db 901 GATATGACAGGGCTGGGGCAAGAAACAGGGGCACCTAGCTGCCTTATTAGCTAATTTAGTGC 960
 Qy 1297 CCTCCGTTTCAGCTTAGCCTTTTACACCTTTTCCCTTTTCATCCACAAATACATTTAAACT 1356
 Db 961 CCTCCGTTTCAGCTTAGCCTTTTACACCTTTTCCCTTTTGTATCCACAAATACATTTAAACT 1020
 Qy 1357 CTGAATTCACATACATAGCTTATTTTAAAGTCAATAGATTTTATAGCTATATAAGTGTGACC 1416
 Db 1021 CTGAATTCACATACATAGCTTATTTTAAAGTCAATAGATTTTATAGCTATATAAGTGTGACC 1080
 Qy 1417 AGTAATGTGGTTGTAATTTTGTGTATGTTTCCCCACATCGCCCCAACCTTCGGATGTGGG 1476
 Db 1081 AGTAATGTGGTTGTAATTTTGTGTATGTTTCCCCACATCGCCCCAACCTTCGGATGTGGG 1140
 Qy 1477 GTCAGGAGGTTGAGGTTCACTATTAAACAAATGTCATAAATATCTCATAGAGGTACAGTGC 1536
 Db 1141 GTCAGGAGGTTGAGGTTCACTATTAAACAAATGTCATAAATATCTCATAGAGGTACAGTGC 1200
 Qy 1537 CAATAGATATTTCAAAATGTTGCATGTTGACCATGTTGACCATGTTGATATCTGAAGAACATACAC 1596
 Db 1201 CAATAGATATTTCAAAATGTTGCATGTTGACCATGTTGACCATGTTGATATCTGAAGAACATACAC 1260
 Qy 1597 TATTAATAAATACCTTAGAGAAAGATTTTGACCTGGCTTTAGATAAAACTGTGCAAGAA 1656
 Db 1261 TATTAATAAATACCTTAGAGAAAGATTTTGACCTGGCTTTAGATAAAACTGTGCAAGAA 1320
 Qy 1657 AATGTAATGAGCAATATATGGAATAAATACACACCTTTGTTTAAAGATA 1704
 Db 1321 AATGTAATGAGCAATATATGGAATAAATACACACCTTTGTTTAAAGATA 1368

RESULT 9
 AA161016/c
 ID AA161016 standard; cdna; 1799 BP.

XX AC AA161016;
 XX AC
 DT 22-OCT-2001 (first entry)
 XX Human polynucleotide SEQ ID NO 5005.
 DE
 KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
 KW peripheral nervous system; neuropathy; central nervous system; CNS;
 KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
 KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
 KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
 KW leukaemia; SS.
 XX Homo sapiens.
 OS
 XX
 PN WO200153312-A1.
 XX
 PD 26-JUL-2001.
 XX
 PF 26-DEC-2000; 2000WO-US34263.
 XX
 XX 21-JAN-2000; 2000US-0488725.
 PR 25-APR-2000; 2000US-0552317.
 PR 09-JUL-2000; 2000US-0598042.
 PR 19-JUL-2000; 2000US-0620312.
 PR 03-AUG-2000; 2000US-0653450.
 PR 14-SEP-2000; 2000US-0662191.
 PR 19-OCT-2000; 2000US-0693036.
 PR 29-NOV-2000; 2000US-0727344.
 XX (HYSE-) HYSEQ INC.
 XX
 XX Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
 PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;
 PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;
 XX WPI; 2001-442253/47.
 DR P-PSDB; AAM41860.

XX Novel nucleic acids and polypeptides, useful for treating disorders
 PT such as central nervous system injuries -
 XX
 PS Claim 1; SEQ ID NO 5005; 10078pp; English.
 XX
 CC The invention relates to human nucleic acids (AA157798-AA161369) and
 CC the encoded polypeptides (AAM38642-AAM42213) with nootropic,
 CC immunosuppressant and cytostatic activity. The polynucleotides are useful
 CC in gene therapy. A composition containing a polypeptide or polynucleotide
 CC of the invention may be used to treat diseases of the peripheral nervous
 CC system, such as peripheral nervous injuries, peripheral neuropathy and
 CC localised neuropathies and central nervous system diseases, such as
 CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
 CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
 CC utilisation of the activities such as: Immune system suppression,
 CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
 CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
 CC assays for receptor activity, arthritis and inflammation, leukemias and
 CC C.N.S disorders.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification.

XX Sequence 1799 BP; 531 A; 389 C; 344 G; 535 T; 0 Other;

Query Match 75.7%; Score 1295.4; DB 22; Length 1799;
 Best Local Similarity 93.6%; Pred. No. 0;
 Matches 1401; Conservative 0; Mismatches 1; Indels 95; Gaps 1;

QY 303 CCACCTGCTCATCAAGAGCCCAAGGTGAGAGGGGACAAAGGTGACCTGGGGCCCTCGAG 362
 DB 1799 CCATGGTTCATGAAGAGCCCAAGGTGAGAGGGGACAAAGGTGACCTGGGGCCCTCGAG 1740
 QY 363 GGGAGCGGGGCGAGCATGCCGCCAAAGAGAGAGAGGGGTACCCGGGGATTCCACCAGAAC 422
 DB 1739 GGGAGCGGGGCGAGCATGCCGCCAAAGAGAGAGAGGGGTACCCGGGGATTCCACCAGAAC 1680
 QY 423 TT----- 424
 DB 1679 TTCAGGCTGGAGTGCAGTGGTGTGATCTTGGCTCACTGCAGGCTCCACCAAGGTTCAAGC 1620
 QY 425 ----- -CAGATTGCATTCACTGGCTTCTCT 447
 DB 1619 GATTCCTCTTCCCTCAACCTCTGGAGTAGCTGGGATTACAGATTGCACTATGGCTTCTCT 1560
 QY 448 GGCACCCACCTTCAGCAATCAGAACAGTGGGATTATCTTCAGCAGTGTGGAGACCAACAT 507
 DB 1559 GGCACCCACCTTCAGCAATCAGAACAGTGGGATTATCTTCAGCAGTGTGGAGACCAACAT 1500
 QY 508 TGGAACTTCTTTGATGTCATGACCTGGGTAGATTGGGGCCCCCAGATCAGGTGTGATTT 567
 DB 1499 TGGAACTTCTTTGATGTCATGACCTGGGTAGATTGGGGCCCCCAGATCAGGTGTGATTT 1440
 QY 568 CTTCACCTTCAGCATCAGCATCAGCATGAGTGTTCAGGAGGCTATGCTACCTTATGCA 627
 DB 1439 CTTCACCTTCAGCATCAGCATCAGCATGAGTGTTCAGGAGGCTATGCTACCTTATGCA 1380
 QY 628 CAATGGCAACACAGCTTTCAGCATGATCAGCTATGAAATGAAGGGCAAAATCAGATACATC 687
 DB 1379 CAATGGCAACACAGCTTTCAGCATGATCAGCTATGAAATGAAGGGCAAAATCAGATACATC 1320
 QY 688 CAGCAATCATGCTGTGCTGAAGCTAGCCAAAGGGGATGAGGTTTGGCTGCGAATGGGCA 747
 DB 1319 CAGCAATCATGCTGTGCTGAAGCTAGCCAAAGGGGATGAGGTTTGGCTGCGAATGGGCA 1260
 QY 748 TGGCGCTCTCCATGGGGACCAACAGCTTTCACACCTTTCAGAGGATTCCTCTCTTGA 807
 DB 1259 TGGCGCTCTCCATGGGGACCAACAGCTTTCACACCTTTCAGAGGATTCCTCTCTTGA 1200
 QY 808 AACTAAGTAATATATGACTAGATAGCTCCACTTTGGGGAAGACTTGTAGCTGAGCTGA 867
 DB 1199 AACTAAGTAATATATGACTAGATAGCTCCACTTTGGGGAAGACTTGTAGCTGAGCTGA 1140

QY 858 TTTGTTACGATCTGAGGAACATTAAAGTTGAGGGTTTTTACATTTGCTGTATCAAAAATTT 927
 DB 1139 TTTGTTACGATCTGAGGAACATTAAAGTTGAGGGTTTTTACATTTGCTGTATCAAAAATTT 1080
 QY 928 ATTGGTTGCAATGTTTTCAGCTACAGGTACACCAATAAATGTTGGACAAATTCAGGGCT 987
 DB 1079 ATTGGTTGCAATGTTTTCAGCTACAGGTACACCAATAAATGTTGGACAAATTCAGGGCT 1020
 QY 988 CAGAGAATCAACCAACCAAAATAGTCTTCTCAGATGACCTTGACTAATAATACATCTCAGCATCT 1047
 DB 1019 CAGAGAATCAACCAACCAAAATAGTCTTCTCAGATGACCTTGACTAATAATACATCTCAGCATCT 960
 QY 1048 TTATCAGTCTTCTTCCCTGGCACCCTAAAGATATATCTCTCAGCAGGTTGGAAATATTT 1107
 DB 959 TTATCAGTCTTCTTCCCTGGCACCCTAAAGATATATCTCTCAGCAGGTTGGAAATATTT 900
 QY 1108 TTTTCTCTATCAGAGAAGTCATTGTCACCAAGAAATTTTGTACTCTCTCTTTTAAATTAATAC 1167
 DB 899 TTTTCTCTATCAGAGAAGTCATTGTCACCAAGAAATTTTGTACTCTCTCTTTTAAATTAATAC 840
 QY 1168 CAGTTTTCAGGAACCCCTGAAGTTTAAAGTTCATTATTTTATAACATTTTGAGAGAAATC 1227
 DB 839 CAGTTTTCAGGAACCCCTGAAGTTTAAAGTTCATTATTTTATAACATTTTGAGAGAAATC 780
 QY 1228 GGATGATGATATCAGAGGGCTGGGGCAAGAACAGGGGCGACTAGCTGCTTATTAGCTA 1287
 DB 779 GGATGATGATATCAGAGGGCTGGGGCAAGAACAGGGGCGACTAGCTGCTTATTAGCTA 720
 QY 1288 ATTTAGTCCCTCCGCTGTTGAGCTTTAGCCTTTGACCCCTTTCCCTTTTGATCCACAAATAC 1347
 DB 719 ATTTAGTCCCTCCGCTGTTGAGCTTTAGCCTTTGACCCCTTTCCCTTTTGATCCACAAATAC 660
 QY 1348 ATTTAAACTCTGAATTCACATACATGCTATTTTAAAGTCAATAGATTTTAGCTATAAAG 1407
 DB 659 ATTTAAACTCTGAATTCACATACATGCTATTTTAAAGTCAATAGATTTTAGCTATAAAG 600
 QY 1408 TGCTTGACCAAGTATGCTGTTGTAATTTTGTATGTTTCCCGCCACATCGCCCCCAACTTC 1467
 DB 599 TGCTTGACCAAGTATGCTGTTGTAATTTTGTATGTTTCCCGCCACATCGCCCCCAACTTC 540
 QY 1468 GGATGCTGGGTGAGGAGTTCAGGTTTCACTATTAAACAATGTCATAAATATCTCATAGAG 1527
 DB 539 GGATGCTGGGTGAGGAGTTCAGGTTTCACTATTAAACAATGTCATAAATATCTCATAGAG 480
 QY 1528 GTACAGTCCCAATAGATATTCAAAATGTTGCTATGTTGACCCAGAGGATTTTATATCTGAAG 1587
 DB 479 GTACAGTCCCAATAGATATTCAAAATGTTGCTATGTTGACCCAGAGGATTTTATATCTGAAG 420
 QY 1588 RACATACACTATTATAATACCTTTAGAGAAAGATTTTACCTGGCTTTAGATAAACTG 1647
 DB 419 AACATACACTATTATAATACCTTTAGAGAAAGATTTTACCTGGCTTTAGATAAACTG 360
 QY 1648 TGGCAAGAAAATGTAATGAGCAATATATGGAATAAATGGAATAAATGGAATAAAGATA 1704
 DB 359 TGGCAAGAAAATGTAATGAGCAATATATGGAATAAATGGAATAAATGGAATAAAGATA 303

RESULT 10
 AAF94076

ID AAF94076 standard; DNA; 810 BP.

XX AAF94076;

XX AAF94076;

XX 23-MAY-2001 (first entry)

DE Primer specific for DNA encoding secretory/membrane protein SEQ ID 510.
 XX Human; secretory protein; membrane protein; vaccine; gene therapy;
 KW rheumatoid arthritis; diabetes; PCR primer; ss.

XX Synthetic.

PN EP1067182-A2.

XX PD 10-JAN-2001.

XX PF 07-JUL-2000; 2000EP-0114090.

XX PR 08-JUL-1999; 99JP-0194179.

XX PR 11-JAN-2000; 2000JP-0118775.

XX PR 02-MAY-2000; 2000JP-0183766.

XX PA (HELI-) HELIX RES. INST.

XX PI Ota T, Isogai T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;

XX DR WPI; 2001-093989/11.

XX Nucleic acids encoding secretory proteins/membrane proteins, useful in gene therapy or as candidate target molecules in drug development -

XX PS Claim 4; SEQ ID 510; 609pp + CD ROM; English.

XX CC This invention relates to nucleic acid sequences AAF93744 - AAF93916 which encode human secretory or membrane proteins represented by AAF88317 - AAF88419. Included in the invention are primers AAF93917 - AAF94295 and AAF62232 - AAF62235 which are used to isolate the cDNA sequences of the invention. The invention also includes methods for the production of antibodies directed against the proteins, and cDNA sequences, which can be used in vaccines. The polynucleotide sequences can be used in gene therapy. The polynucleotide sequences and the proteins they encode may be used in the prevention, treatment and diagnosis of diseases associated with inappropriate secretory protein/membrane protein expression. The nucleic acids and complementary sequences may also be used as DNA probes in diagnostic assays (e.g. polymerase chain reactions (PCR)) to detect and quantitate the presence of similar nucleic acid sequences in samples. They may also be used to study the expression and function of secretory proteins/membrane polypeptides and their role in metabolism. The polypeptides may be used as antigens in the production of antibodies against them and in assays to identify modulators (agonists and antagonists) of expression and activity. The antibodies and antagonists may also be used as therapeutic agents to down regulate expression and activity. The antibodies may also be used as diagnostic agents for detecting the presence of the polypeptides in samples (e.g. by enzyme linked immunosorbent assay (ELISA)). Examples of diseases which may be treated include rheumatoid arthritis and diabetes.

XX SQ Sequence 810 BP; 200 A; 201 C; 218 G; 188 T; 3 other;

Query Match 44.8%; Score 766.6; DB 22; Length 810;
 Best Local Similarity 98.9%; Pred. No. 1.3e-212;
 Matches 791; Conservative 0; Mismatches 7; Indels 2; Gaps 2;

QY 1 GGCATCTGCCGAGGAGACCGCTCCCTGGAGCTCTGCTGCTCTCAGGAGACTCTGA 60
 |||||
 DB 13 GGCATCTGCCGAGGAGACCGCTCCCGAGCTCTGCTGCTCTCAGGAGACTCTGA 72
 |||||

QY 61 GGCCTCTGTGAGAAATCATGCTTTGGAGGAGCTCATCTATTGGCAACTGCTGGCTTGT 120
 |||||
 DB 73 GGCCTCTGTGAGAAATCATGCTTTGGAGGAGCTCATCTATTGGCAACTGCTGGCTTGT 132
 |||||

QY 121 TTTCCTCCCTTTTTCCTCTGTGTAAGATGAATACATGAGTCTCCACAAACCGGAGGACT 180
 |||||
 DB 133 TTTCCTCCCTTTTTCCTCTGTGTAAGATGAATACATGAGTCTCCACAAACCGGAGGACT 192
 |||||

QY 181 ACCCCAGACTGCATAGTGTGTCATGGAGACTACAGCTTCGAGCTACCAAGGCC 240
 |||||
 DB 193 ACCCCAGACTGCATAGTGTGTCATGGAGACTACAGCTTCGAGCTACCAAGGCC 252
 |||||

QY 241 CCTTGGCCACCGGCCCTCTCTGGCAATTCAGGAAACCATGGAACAAATGCAACAATGG 300
 |||||
 DB 253 CCTTGGCCACCGGCCCTCTCTGGCAATTCAGGAAACCATGGAACAAATGCAACAATGG 312
 |||||

QY 301 AGCCACTGGTTCATGAGGAGCCAAAGGTGAGAAGGGCGACAAAGGTGACCTGGGCGCTCG 360
 |||||

DB 313 AGCCACTGGTTCATGAGGAGCCAAAGGTGAGAAAGGGCGACAAAGGTGACCTGGGCGCTCG 372

QY 361 AGGGAGCGGGGAGCAGATGGCCCCCAAGGAGAGAGAGGCTACCCGGGGATTCACACAGA 420
 |||||

DB 373 AGGGAGCGGGGAGCAGATGGCCCCCAAGGAGAGAGAGGCTACCCGGGGATTCACACAGA 432
 |||||

QY 421 ACTTCAGATTGCATTCATGGCTTCTCTGGCAACCCACTTCAGCAATCAGAACAGTGGGAT 480
 |||||

DB 433 ACTTCAGATTGCATTCATGGCTTCTCTGGCAACCCACTTCAGCAATCAGAACAGTGGGAT 492
 |||||

QY 481 TATCTTCAGCACTGTGTGAGACCAACATTTGGAACACTTCTTTGATGTGATGCTGGTAGATT 540
 |||||

DB 493 TATCTTCAGCACTGTGTGAGACCAACATTTGGAACACTTCTTTGATGTGATGCTGGTAGATT 552
 |||||

QY 541 TGGGCCCCCAGTATCAGGTGTGTATTCTTTCACCTTCAGCATGATGAAGCATGAGGATGT 600
 |||||

DB 553 TGGGCCCCCAGTATCAGGTGTGTATTCTTTCACCTTCAGCATGATGAAGCATGAGGATGT 612
 |||||

QY 601 TGAGGAAGTGTATGTATACCTTTATGCACAATGGCAACACAGTCTTCAGCATGTACAGCTA 660
 |||||

DB 613 TGAGGAAGTGTATGTATACCTTTATGCACAATGGCAACAGTCTTCAGCATGTACAGCTA 672
 |||||

QY 661 TGAATGAAGGGCAAAATCAGATACATCCAGCAATCATGCTGTGCTGAAGCTAGCCAAAGG 720
 |||||

DB 673 TGAATGAAGGGCAAAATCAGATACATCCAGCAATCATGCTGTGCTGAA-CTAGCCAAAGG 731
 |||||

QY 721 GGATCAGGTTGGCTGCGAATGGGCAATGGCGCTCTCCATGGGGACCACCAAGCTTCTC 780
 |||||

DB 732 GGATCAGGTTGGCTGCGAATGGGCAATGGCGCTCTCCATGGGGACCACCAAGCTTCTC 790
 |||||

QY 781 CACCTTTGCAGGATTCCTGC 800
 |||||

DB 791 CACCTTTGCAGGATTCCTGC 810
 |||||

RESULT 11

ABK35591

ID ABK35591 standard; DNA; 741 BP.

AC ABK35591;

XX 08-MAY-2002 (first entry)

XX Gene encoding novel human secreted or membrane-associated protein #10.

XX Human; secreted protein; membrane-associated protein; hypertension;
 inflammatory disorder; neurological disorder; haematopoietic disorder;
 skeletal developmental disorder; growth abnormality; autoimmune disorder;
 neurodegenerative disorder; nervous system disorder; bacterial infection;
 peripheral myelinopathy; viral infection; cancer; obesity; diabetes;
 hypotension; sexual development disorder; blood disorder; gene; ds.

XX Homo sapiens.

XX WO200204600-A2.

XX 17-JAN-2002.

XX 12-JUL-2001; 2001WO-US21985.

XX 12-JUL-2000; 2000US-218033P.

XX 21-AUG-2000; 2000US-226517P.

XX (SMK) SMITHKLINE BEECHAM CORP.
 (SMK) SMITHKLINE BEECHAM PLC.
 (GLAX) GLAXO GROUP LTD.

XX Agarwal P, Cogswell JP, Lai Y, Martensen SA, Rizvi SK, Strum JC;
 Smith RF, Xiang Z, Xie Q;
 WPI; 2002-188468/24.
 DR P-PSDB; AAU84371.

XX

QY 693 ATCATGCTGTGCTGAAGCTAGCAAGGGGATGAGTGTGGCTGCGAATGGCAATGGCG 752
 Db 796 ACCATGCGAGTCTGAAGTTGGCCAAAGAGATGAAGTCTGGCTAAGATGGCAAGGTTG 855
 QY 753 CTCGCCATGGGGACCAACAGCTTCTCCACCTTTGGCAGGATCTGCTCTTTGAAACTA 812
 Db 856 CCCGCCATGGGGACCAACAGGCTTCTCTACCTTCGCGAGGCTTCTGCTTTTGAACATA 915
 QY 813 AGTAAATATATGACTAGTAATAGTCCACTTTGGGGAAGACTGTAGCTCAGCT-GATTTG 871
 Db 916 AGTCATGAGGAAGTCAGATAGTCCATGCTAAGGGCGATTTGTAGTGAGCTAGGTTG 975
 QY 872 TTACGATCTGAGGAACATAAAGTTGAGGTTTATCATGCTGTATTCAAAAAATATTG 931
 Db 976 TTAGGATCTGAGGGGTGTGTGAGTTG-GGCTTCTCTATGGAGTATTAACTGTTACATTG 1034
 QY 932 GTTCCAAATGTTTTCACGCTACAGGTACACCAATAATGTTGGACAATTCAGGGGCTCAGA 991
 Db 1035 GTCACACTGCTACTCATCTTAATGGCATACCAATATATGTTGATACTTTAGGGGCTAGGA 1094
 QY 992 AGAATCAACCAAAAATAGTCTTCTCAGA 1020
 Db 1095 AGATAGACCACAGGTAATATTCACAGA 1123

RESULT 15

AAZ61730
 ID AAZ61730 standard; cDNA; 1123 BP.

XX AAZ61730;

AC AAZ61730;

DT 27-MAR-2000 (first entry)

XX cDNA encoding rat skin cell secreted protein, SEQ ID NO:203.

XX Skin; dermal papilla; keratinocyte; neonatal foreskin fibroblast;
 KW embryonic skin cell; keratinocyte stem cell; transit amplifying cell;
 KW secreted; transmembrane; inflammation; cancer; neurological disease;
 KW angiogenesis; tumour vascularisation; growth disorder;
 KW developmental disorder; skin wound; hair follicle disorder;
 KW anti-inflammatory; cytostatic; neuroprotective; vulnery; ss.

XX Rattus sp.

XX WO955865-A1.

XX 04-NOV-1999.

XX 29-APR-1999; 99WO-NZ00051.

XX 29-APR-1998; 98US-0069726.

XX 09-NOV-1998; 98US-0188930.

XX (GENE-) GENESIS RES & DEV CORP LTD.

XX Strachan L, Sleeman M, Watson JD, Onrust R, Kumble A, Murrison JG;

XX WPI: 2000-072177/06.

XX P-PSDB; AA76025.

XX Novel polynucleotides useful for the treatment of various conditions

XX including wounds and cancer -

XX Claim 1; Page 137; 235pp; English.

XX The invention relates to novel nucleic acid sequences derived from rat
 CC dermal papilla, human keratinocytes and neonatal foreskin fibroblasts,
 CC and mouse embryonic skin, keratinocyte stem cells and transit amplifying
 CC cells. Polypeptides of the invention may be used to treat inflammation,
 CC cancer and neurological diseases. The proteins may be used to stimulate
 CC the growth and motility of keratinocytes, to inhibit the growth of
 CC cancer cells, to modulate angiogenesis and tumour vascularisation, to
 CC modulate skin inflammation, to modulate epithelial cell growth and to

CC inhibit binding of HIV-1 to leukocytes. The invention may also be used
 CC to treat growth and developmental defects, skin wounds and hair follicle
 CC disorders. Sequences AAZ61606-261832 represent cDNA sequences derived
 CC from several mouse, rat or human skin cell types. Sequences
 CC AAZ61606-261649, AAZ61725-261765, AAZ61802-261811 and AAZ61826 encode
 CC proteins with an N-terminal signal sequence, indicating that the proteins
 CC are secreted. Sequences AAZ61650-261668, AAZ61766-261780, AAZ61812-261817
 CC and AAZ61827-261829 encode proteins with one or more putative
 CC transmembrane domains.

XX
 SQ Sequence 1123 BP; 277 A; 266 C; 321 G; 258 T; 1 other;

Query Match 40.7%; Score 696.2; DB 21; Length 1123;
 Best Local Similarity 82.8%; Pred No. 5,3e-192;
 Matches 819; Conservative 0; Mismatches 168; Indels 2; Gaps 2;
 QY 33 CTCCTCTGTCTCTCAGGAGACTCTGAGGCTCTGTGAGAAATCATGCTTTGGAGCAGC 92
 Db 136 CCATCAGCTTCCCGGGGAGATTCTGCGATTGTGTCACGAGCCATGCTCAGAGGCAGC 195
 QY 93 TCATCTATTGCAACTGCTGGCTTTGTTTTCTCTCCCTTTTTCCTGTGCTCAAGATGAAT 152
 Db 196 TCGTCTGTGGGCACTGCTGGCTTTGCTTTCTCTCCCAATTTTGCCTGTGCTCAAGATGAAT 255
 QY 153 ACATGGAGTCTCCACAAACCGGAGACTTACCCCGACAGCTGACAGTAAAGTGTCTCATGGAG 212
 Db 256 ACATGGAGTCTCCACAAACCGGAGACTTACCCCGACAGCTGACAGTAAAGTGTCTCATGGAG 315
 QY 213 ACTCAGCTTTGGAGGCTACCAAGGCCCTCTGGGCCACCGGGCCCTCTCTGCAATCCAG 272
 Db 316 ATTATGGATTCCGTGTTACCAAGGGCCCTGGAGCCCGCCCTCTCTGCAATCCAG 375
 QY 273 GAACCATCTGGAACCAATGGCAACATGGAGCCACTGGTTCATCAAGAGCCCAAGGTGAGA 332
 Db 376 GAACCATCTGGAACCAATGGCAACATGGAGCCACTGGTTCATCAAGAGCCCAAGGTGAGA 435
 QY 333 AGGGCGCAAAAGGTGACCTGGGGCTTCGAGGGGAGCGGGGCGAGCATGGCCCCCAAGGAG 392
 Db 436 AAGGAGACAAAGGCGACCTGGGGCTTCGAGGGGAGCGGGGCGAGCATGGCCCCCAAGGAT 495
 QY 393 AGAGGGCTACCGGGGATTCACAGAACTTCAGATTTCATGCTTCTCTGGCAA 452
 Db 496 AGAGGGATATCCCGGGTGGCCAGAGCTGCAGATTGCGTTCATGCTCTTAGCA 555
 QY 453 CCCACTTCAGCAATCAGAACAGTGGGATTTCCTCAGCAGTCTTCAGACCAACATTGGAA 512
 Db 556 CTCACCTCAGCAATCAGAACAGTGGGATTTCCTCAGCAGTCTTCAGACCAACATTGGAA 615
 QY 513 ACTTCTTTGATGTCTAGTGTGATTTGGGGCCCGCCAGTATCAGGTGTGTATTTCTTCA 572
 Db 616 ACTTCTTCGATGTCTAGTGTGATTTGGGGCCCGCCAGTATCAGCGGTGTATTTCTTCA 675
 QY 573 CTTTCAGCATGATGAAGCATGAGGATGTTGAGGAAGTGTATGTGTACCTTATGCAATG 632
 Db 676 CTTTCAGCATGATGAAGCATGAGGATGTTGAGGAAGTGTATGTGTACCTTATGCAATG 735
 QY 633 GCACACAGCTCTTCAGCATGTACAGCTATGAATGAAGGGCAATCAGATCATCATCAGA 692
 Db 736 GTAAACCGGTGTTTCAGCATGTACAGCTATGAATGAAGGGCAATCAGATCATCATCAGA 795
 QY 693 ATCATGCTGTGCTGAAGCTAGCAAGGGGATGAGTGTGGCTGCGAATGGCAATGGCG 752
 Db 796 ACCATGCGAGTCTGAAGTTGGCCAAAGAGATGAAGTCTGGCTAAGATGGCAAGGTTG 855
 QY 753 CTCTCCATGGGGACCAACAGCTTCTCCACCTTTGCAAGGATTCCTGCTCTTTGAAACTA 812
 Db 856 CCCCTCCATGGGGACCAACAGGCTTCTCTACCTTCGCGAGGCTTCTGCTTTTGAACATA 915
 QY 813 AGTAAATATATGACTAGTAATAGTCCACTTTGGGGAAGACTGTAGCTCAGCT-GATTTG 871
 Db 916 AGTATGAGGAAGTCAGATAGTCCACTTTCGCTAAGGGCGGATTTGTAGGTGAGCTAGGTTG 975
 QY 872 TTACGATCTGAGGAACATAAAGTTGAGGTTTTCATCATGCTGTATTCAAAAAATATTG 931

Rat; skin cell; cytostatic; antiinflammatory; anti-HIV;
 KW KW nontropic; neuroprotective; vulnery; immunomodulatory; vaccine;
 KW KW keratinocyte growth stimulation; cancer; angiogenesis inhibition;
 KW KW inflammation; neurological disease; ss. . .

Query Match	40.7%	Score	696.2	DB	22	Length	1123
Best Local Similarity	82.8%	Pred. No.	5.3e-192				
Matches	819	Conservative	0	Mismatches	168	Indels	2
Gaps	2						
QY	33	CTCTGCTGTCTTCACAGGAGACTCTGAGGCTCTGTGTTGAGAAATCATGCTTTGGAGGCAGC	92				
Db	136	CCCATCAGCTTCCCGGGGAGATTCTGCCGATTGTCACGAGCCATGCTCAGGAGGCAGC	195				
QY	93	TCATCTATTGGCAACTGCTGCTTGTGTTTTTCCTCCCTTTTGGCTGTGTCAAGATGAAT	152				
Db	196	TCGTCTGTGTGACCTGCTGTGCTTTTTCCTCCCATTTTGCCTGTGTCAAGATGAAT	255				
QY	153	ACATGGAGTCTCCACAACCGAGAGACTACCCCCAGACATGCAGTAAGTGTGTCTATGGAG	212				
Db	256	ACATGGAGTCTCCACAAGCTGCGAGACTGCCCCACAGACTGCAGCAAGTGTGTGCCATGGAG	315				
QY	213	ACTACAGCTTTCGAGGCTTACCAAGGCCCCCTGGGCCACCGGGCCCTCCTGGCATTTCCAG	272				
Db	316	ATTATGATTCCGTGGTTTACCAAGGGCCCTTGGACCCCAAGTCTCTCTGGCATTTCCAG	375				
QY	273	GAACCATGGAACAATGGCAACAATGGAGCCACTGTGTCATGAGGAGGCCAAGAGTGAGA	332				
Db	376	GAACCATGGAACAATGGAAATTAACGAGGAGCACTGGCCAGGAAGGGGCCAAGGGTGAGA	435				
QY	333	AGGCGACAAGGTGACCTTGGGGCTTCAGAGGGGAGCGGGGACGATGSCCCCAAAAGAG	392				
Db	436	AGGAGACAAGGCGACTCTGGGGCTTCAGGGGAACGGGGGACGATGGCCCCAAAGAT	495				
QY	393	AGAAGGCTACCCGGGGATTCCACACAGAACTTCAGATTGCATTTCAATGCTTCTCTGGCAA	452				
Db	496	AGAAGGATACCCAGGGGTGCCACACAGAGTTCAGATTGCGTTTCATGCTTCTCTAGCGA	555				

Qy	453	CCC	ACTTTCATGATGTCATGAC	TGAGTATTTGGGGCCCCCAGTATC	AGGTGTATTTCTTCTCA	572
Db	556	CTC	ACTTTCATGATGTCATGAC	TGAGTATTTGGGGCCCCCAGTATC	AGGTGTATTTCTTCTCA	615
Qy	513	ACT	TCTTTGATGTCATGAC	TGAGTATTTGGGGCCCCCAGTATC	AGGTGTATTTCTTCTCA	572
Db	616	ACT	TCTTTGATGTCATGAC	TGAGTATTTGGGGCCCCCAGTATC	AGGTGTATTTCTTCTCA	675
Qy	573	CCT	TTCAGCATGATGAAG	CATGAGGATGTTGAGGAACTGTATG	TGTACCTTATGCACAATG	632
Db	676	CCT	TTCAGCATGATGAAG	CATGAGGATGTTGAGGAACTGTATG	TGTACCTTATGCACAATG	735
Qy	633	GCA	ACACAGCTTTCACGATG	TACAGCTATGAAATGAAGGGCAAAATC	AGATACATCCACGA	692
Db	736	GTA	ACACGGTGTTCAGCAT	GTACAGCTATGAAACAAAGGAAAAATC	AGATACATCCACGA	795
Qy	693	ATC	ATGCTGTGCTGAAGCT	TAGCCAAAGGGGATGAGGTTTGGCTGCGAAT	TGGCAATGGCGTGGCG	752
Db	796	ACC	ATGAGTGTGCTGAAG	TTGGCCAAAGGAGATGAAGTCTGGCTAAGAAT	TGGCAACCGTG	855
Qy	753	CTC	TCCATGGGGACCAAC	CAACGCTTCTCCACCTTTTGCAGGATTTCTGCT	CTTTGAAACTA	812
Db	856	CCCT	TCCATGGGGACCAAC	CAACGCTTCTTACCTTCGACGCTTCTGCT	TTTGAAGACTA	915
Qy	813	AGT	AAATATATGACTAGA	ATAGCTCCACCTTTTGGGGAAGACTTGTAGCT	GAGCT-GATTG	871
Db	916	AGT	GATCAGGAAGTCAG	GATAGCTCATGCTAAGGCGATTTGTAGT	GAGCTAGGTTG	975
Qy	872	TTA	GATCTGAGGAACAT	TAAAGTTGAGGGTTTTACATTTCTGTATTC	CAAAAATATTATG	931
Db	976	TTA	GATCTGAGGGGTG	TGAGTTG-GGCTTCTCTATGAGGATATTTA	ACTGTTACATG	1034
Qy	932	GTT	CAATGTTGTTCA	CGCTACAGGTPACACCAATATGTTG	GACAATTCAGGGCTCAGA	991
Db	1035	GTC	ACATGCTACTCAT	CTTAATGGCATACCAATTAATGTTGG	TACTTTAGGGCTAGGA	1094
Qy	992	AGA	ATCAACCAAAAATAG	TCTTCTCAGA	1020	
Db	1095	AGA	ATAGACCAACAAG	GTAAATATTTCCACAGA	1123	
RESULT	18					
ID	ABL34718					
XX	ABL34718 standard; cdna; 1123 BP.					
AC	ABL34718;					
XX	04-APR-2002 (first entry)					
DT						
DE	Rat cdna isolated from skin cells SEQ ID NO: 28.					
KW	Human; rat; mouse; skin cell; skin wound; cancer; growth defect;					
KW	developmental defect; inflammatory disease; dermatological; vulnerar;					
KW	immunomodulator; anti-inflammatory; cytostatic; neuroprotective; gene;					
SS	ss.					
OS	Rattus sp.					
XX	WO200190357-A1.					
XX	29-NOV-2001.					
XX	24-MAY-2001; 2001WO-NZ00099.					
XX	24-MAY-2000; 2000US-206650P.					
XX	25-JUL-2000; 2000US-221232P.					
XX	(GENE-) GENESIS RES & DEV CORP LTD.					
XX	Watson JD, Strachan L, Sleeman M, Onrust R, Murison JG, Kumble KD					
XX	WPI; 2002-122020/16.					

PT New polynucleotides and polypeptides encoded by the polynucleotides
PT isolated from skin cells, useful for treating skin wounds, cancers,
PT growth and developmental defects, inflammatory diseases, or for
PT modulating immune responses -

XX
PS Claim 1; Page 86-87; 466pp; English.

The present invention provides the protein and coding sequences of cDNAs isolated from human, murine and rat skin cell libraries. The sequences can be used in the development of therapeutic agents useful in the treatment of skin diseases, including skin wounds, cancer, growth defects, developmental defects and inflammatory diseases. The proteins have important roles in the induction of hair growth, cell proliferation and cell-cell interaction, in maintaining tissue integrity, in wound healing and in modulating immune responses. The present sequence is a cDNA of the invention.

SQ Sequence 1123 BP; 277 A; 266 C; 321 G; 258 T; 1 other;

Query Match 40.7%; Score 696.2; DB 24; Length 1123;
Best Local Similarity 82.8%; Pred. No. 5.3e-192;
Matches 819; Conservative 0; Mismatches 168; Indels 2; Gaps 2;

QY	33	CTCTGCTGCTTCTTCAGAGGAGACTCGAGGCTCTGTTGAGATCATGCTTTGGAGGCAGC	92
Db	136	CCATCAGGCTTCCCGGGGAGATTCTTGGCGGATTTTGTACAGAGCCATGCTCAGGAGGCAGC	195
QY	93	TCATCTATTGGCAACTGCTGGCTTTTGTCTTCTCCCTTTTTCCTGCTGTGTCAAGATGAAT	152
Db	196	TGCTCTGGTGGCACTGCTGGCTTTCTCTCCATTTTTCCTCCATTTTGGCTGTGTCAAGATGAAT	255
QY	153	ACATGAGGCTCCACAAACCGGAGGACTACCCACAGACTGCAGTAAGTGTGTTCATGGAG	212
Db	256	ACATGAGGCTCCACAAGCTGGAGGACTGCCCCACACTGCAGCAAGTGTGCCATGGAG	315
QY	213	ACTACAGCTTTGGAGCTACCAAGGCCCCCTGGGCCACCGGCCCTCTGCGCATTTCCAG	272
Db	316	ATTATGGATTCCGTGTTACCAAGGGCCCCCTGGACCCCGAGTCTCTGGCATTTCCAG	375
QY	273	GAACCATGGAACATGSCAACATGGAGCCACTGGTCTATGAAGAGGCCAAGGTGACA	332
Db	376	GAACCATGGAACATGGAATTAACGGAGCCACTGGCCACCAAGGGCCAAAGGTGTAGA	435
QY	333	AGGGCCACAAAGGTGACCTGGGGCCCTCGAGGGAGCGGGGAGCATGCCCCAAAGAG	392
Db	436	AGGAGACAAAGCGACCTGGGGCTCGAGGGGAACCGGGGAGCATGCCCCAAAGGT	495
QY	393	AGAAGGGCTACCCGGGGATTCCACCAGAACTTCAGATTGCAATTCATGGCTTCTCTGC	452
Db	496	AGAAGGATACCCAGGGGTGCCACCAGAGCTCAGATTGGGTTTCATGGCTTCTCTAGCA	555
QY	453	CCGACTTCAGCAATCAGACAGTGGGATTATCTTCAGCAGTGTGTGAGACCAACATTTG	512
Db	556	CTCAGCTTCAGCAATCAGAACAGTGGCGATTATCTTCAGCAGTGTGTGAGACCAACATTTG	615
QY	513	ACTTCTTTCATGTCATGCTGTTAGATTGGGGCCCCAGTACATCAGTGTGTATTCTTCA	572
Db	616	ACTTCTTCATGTCATGCTGTTAGATTGGGGCCCCGTTATCAGCGCTGTATTCTTCA	675
QY	573	CCTTCAGCATGATGAAGCATGAGGATGTTGAGGAAGTGTATGTGTACCTTATGCAACATG	632
Db	676	CCTTCAGCATGATGAAGCATGAGGATGTTGAGGAAGTGTATGTGTACCTTATGCAACATG	735
QY	633	GCAACACAGCTTTCAGCATGTACAGTATGAATGAAGGCCAAATCAGATACATCCAGCA	692
Db	736	GTAAACAGGCTTTCAGCATGTACAGTATGAACAAAGGGAATCAGATACATCCAGCA	795
QY	693	ATCATGCTGCTGAGCTAGCCAAAGGGGATGAGGTTTGGCTGGCAATGGCAATGGCG	752
Db	796	ACCATGCACTGCTGAAGTTGGCCAAAGGAGATGAAGTCTGGCTAAGAAATGGCAACGGTG	855
QY	753	CTCTCCATGGGACCAACAGCTTCTCCACCTTTGCAAGGATTCCTGCTCTTTGAACTA	812

Db	856	CCCTCCATGCGGGACCACCACGCGCTTCTCTACCTTCGACGCTTCTGCTTTTGAACA	915
Qy	813	AGTAAATATATGACTAGAAATAGCTCCACATTTGGGGAAGACTTCTAGCTGAGCT-GATTTTG	871
Db	916	AGTGATCAGGAAGCTCAGGATAGCTCCATGCTRAGGCGATTTGCTAGCTGAGCTAGGGTTC	975
Qy	872	TTACGATCTGAGGAACAATTAACTTGAGGGTTTTACATTTGCTGTATTCAAAAATTAATTATTC	931
Db	976	TTAGGATCTGAGGGGTGTTGGAGCTTC-GGCTCTCTATGAGGATATTAACTGTTACATTTC	1033
Qy	932	GTTGCAATGTTGTTTCACGCTACAGGTPACACCAATAATGTTGGACAATTCAGGGGCTCAGA	991
Db	1035	GTCACTACTGCTACTCAATCTAATGGCATACCAATTAATGTTGGATACTTTAGGGGCTAGGA	109
Qy	992	AGAATCAACCCACAAAATAGTCTTCTTCAGA	1020
Db	1095	AGAATAGACCACCAAGTAATATATCCCA	1123

RESULT 19

ABL34815

ID ABL34815 standard; cDNA; 1123 BP.

AC ABL34815;

XX
154955000

DT 04-APR-2002 (first entry)

DE Rat CDNA isolated from skin cells SEQ ID NO: 203.

XX Human; rat; mouse; skin cell; skin wound; cancer; growth defect;
KW developmental defect; inflammatory disease; dermatological; vulnery;
KW immunomodulator; anti-inflammatory; cytostatic; neuroprotective; gene;
KW ss.

22

Rattus sp.

XX
XX

PN WO200190357-A1.

XX

PD 29-NOV-2001.

XX

PF 24-MAY-2001; 2001WO-NZ00099.
XX
XX 24-MAY-2000; 2000US-206650P.
PR 25-JUL-2000; 2000US-22123P.
PR
XX
XX
PA (GENE-) GENESIS RES & DEV CORP LTD.

Watson JD, Strachan L, Sleeman M, Onrust R, Murison JG, Kumble
 WPI: 2002-122020/16.

XX
XX

PT New polynucleotides and polypeptides encoded by the polynucleotides isolated from skin cells, useful for treating skin wounds, cancers, growth and developmental defects, inflammatory diseases, or for modulating immune responses -

XX
XX

PS Claim 1;

QY 33 CTCGCTCTCTCTCAGGAGACTCTGAGGCTCTCTTGTGAGATCATGCTTTGGAGGCGAC 92
 DB 136 CCCATCAGCTTCCCGGGGAGATTCTGCGGATTTGTCTACGAGCCATGCTCAGGAGCGAC 195
 QY 93 TCATCTATTGGCACTGCTGGCTTTGTTTCCCTCCCTTGTGCTGCTGCTCAAGATGAAT 152
 DB 196 TCGTCTGGTGGACCTGCTGGCTTTGCTTCTTCTCCCAATTTTGGCTGTGTCAAGATGAAT 255
 QY 153 ACATGGAGCTCTCCACAAACCGGAGGACTACCCCGAGACTGCGAGTAAGTGTGTCTATGGAG 212
 DB 256 ACATGGAGCTCTCCACAAACCGGAGGACTGCGGAGGACTGCGAGTAAGTGTGTCTATGGAG 315
 QY 213 ACTACAGCTTTCGAGGCTTACCAAGGCCCTCTGGGCCACCGGGCCCTCTCTGGCATTCAG 272
 DB 316 ATTATGGATTCGCTGTTTACCAAGGGCCCTCTGGGCCACCGGGCCCTCTCTGGCATTCAG 375
 QY 273 GAAACCATGGAAACAATGGCAACATGAGGACCTGCTGATGATGAGGACCAAAAGGTGAGA 332
 DB 376 GAAACCATGGAAACAATGGAATACGAGGACCTGCTGATGATGAGGACCAAAAGGTGAGA 435
 QY 333 AGGCGACAAAGGTGAGCTGGGGCTCTGAGGGGAGCGGGGCGAGCATGCCCCAAAGGAG 392
 DB 436 AAGGAGACAAAGGCGAGCTGGGGCTCTGAGGGGAGCGGGGCGAGCATGCCCCAAAGGAT 495
 QY 393 AGAAGGCTACCCGGGGATTCACACAGAACTTCAGATTGCAATTCATGCTTCTCTGGCAA 452
 DB 496 AGAAGGATACCCAGGGGATTCACACAGAACTTCAGATTGCAATTCATGCTTCTCTAGCGA 555
 QY 453 CCCACTTCAGCAATCAGAACTGAGGATTTCTTCCAGCAGTGTTCAGACCAACATTTGAA 512
 DB 556 CTCACCTTCAGCAATCAGAACTGAGGATTTCTTCCAGCAGTGTTCAGACCAACATTTGAA 615
 QY 513 ACTCTCTTTGATGCTAGTGTGATGTTGGGGCCCGGAGTATGAGTGTGATTTCTTCA 572
 DB 616 ACTCTCTGATGCTAGTGTGATGTTGGGGCCCGGAGTATGAGTGTGATTTCTTCA 675
 QY 573 CTTTCAGATGATGAGGATGAGGATGTTGAGGAGTCTATCTGTACCTTATGCAATG 632
 DB 676 CTTTCAGATGATGAGGATGAGGATGTTGAGGAGTCTATCTGTACCTTATGCAATG 735
 QY 633 GCAACACAGTCTTCAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 692
 DB 736 GCAACACAGTCTTCAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 795
 QY 693 ATCATGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 752
 DB 796 ACCATGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 855
 QY 753 CTCTCATGGGGACCAACAGCTTCTCCACCTTTGCGAGGATCTCTGCTCTTTGAAACTA 812
 DB 856 CCTCATGGGGACCAACAGCTTCTCCACCTTTGCGAGGATCTCTGCTCTTTGAAACTA 915
 QY 813 AGTAATATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 871
 DB 916 AGTATGAGGAGTACAGTACGATGATGATGATGATGATGATGATGATGATGATGATGATG 975
 QY 872 TTACATCTGAGGAACATTAAGTTGAGGTTTACATTTGATGATGATGATGATGATGATGATG 931
 DB 976 TTAGATCTGAGGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1034
 QY 932 GTTGCAATGTTCTTCCAGCTACAGTACCAATATGTTGACAAATTCAGGGGCTCAGA 991
 DB 1035 GTACATGCTACTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1094
 QY 992 AGAATCAACCAAAATAGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1020
 DB 1095 AGAATCAACCAAAATAGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1123
 RESULT 20
 AAC64064
 ID AAC64064 standard; DNA; 1117 BP.

XX AAC64064;
 AC 19-FEB-2001 (first entry)
 DT Mouse zacr2p2 DNA, SEQ ID NO:11.
 XX
 DE Mouse zacr2p2; adipocyte complement related protein homologue;
 KW ACRP30; C1q domain; collagen-like domain; energy balance modulation;
 KW cellular metabolism; metabolic disorder; obesity; anorexia;
 KW antimicrobial agent; infection; platelet aggregation inhibition;
 KW adhesion; activation; vascular injury; antibacterial; antiviral;
 KW human zacr3p3 homologue; ds.
 XX
 OS Mus musculus.
 OS WO200063377-A1.
 PN 26-OCT-2000.
 PD 19-APR-2000; 200WO-US10454.
 XX 20-APR-1999; 99US-0294943.
 PR (ZYMO) ZYMOGENETICS INC.
 PA Piddington CS, Bishop PD;
 PI WPI; 2000-665243/64.
 XX P-PSDB; AAB29582.
 DR Novel zacr3p3 polypeptides used to treat or prevent bacterial or viral
 PT infections, for wound healing, improving blood flow, and to analyze
 PT energy efficiency in mammals -
 XX
 PS Disclosure; Page 115-117; 123pp; English.
 XX
 CC The invention relates to the human zacr3p3 protein (AAB29580) and to
 CC nucleic acids which encode it (AAC64063). Zacr3p3 is a homologue
 CC of adipocyte complement related protein (ACRP30) and contains a
 CC collagen-like domain comprising Gly-Xaa-Xaa or Gly-Xaa-Pro repeats, and a
 CC C-terminal C1q domain comprising 10 beta-strands. The zacr3p3 gene is
 CC located on chromosome 5p12. The invention also relates to zacr3p3
 CC fragments, fusion proteins containing zacr3p3 polypeptides,
 CC zacr3p3-specific antibodies, expression constructs and host cells
 CC comprising zacr3p3 nucleic acids, and methods of recombinant production of
 CC zacr3p3. Human zacr3p3, and its agonists and antagonists may be used in the
 CC study and modulation of cellular metabolism and energy balance in
 CC mammals, and may therefore be used to treat disorders such as obesity and
 CC anorexia, and conditions associated with these disorders. Due to its C1q
 CC like domain, zacr3p3 and zacr3p3-containing fusion proteins may be useful
 CC as antimicrobial agents, promoting lysis or phagocytosis of infectious
 CC organisms such as bacteria or viruses. Zacr3p3, its fragments, fusion
 CC proteins, antibodies and activity modulators may also be used to inhibit
 CC collagen-induced platelet aggregation, adhesion, or activation, and may
 CC therefore have potential for promoting blood flow within the vasculature
 CC of a mammal e.g., to treat injury to the vasculature or other collagenous
 CC tissue. Human zacr3p3 and its antibodies may additionally be used to study
 CC dimerisation and oligomerisation. The present sequence represents DNA
 CC encoding mouse zacr2p2, a homologue of human zacr3p3.
 XX
 SQ Sequence 1117 BP; 284 A; 272 C; 293 G; 268 T; 0 other;
 Query Match 40.6%; Score 695.8; DB 21; Length 1117;
 Best Local Similarity 85.5%; Pred. No. 6.9e-192;
 Matches 786; Conservative 0; Mismatches 132; Indels 1; Gaps 1;
 QY 72 GAATCATGCTTTGGAGGAGGCTCATCTATTGGCAACTGCTGGCTTTGTTTCTCCCTT 131
 DB 106 GAGCCATGCTCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 165
 QY 132 TTTGCTGTGTCAAGATGAATGAGTCTTCCACAAACCGGAGGAGGAGGAGGAGGAGGAGGACT 191
 ID AAC64064 standard; DNA; 1117 BP.

Db 166 TTTGCTGTGTCAAGATGAATACATGAGTCTCCACAAGCTGGAGGACTGCCCCAGACT 225
 Qy 192 CGAGTAAGTGTGTGTCATGAGACTACAGCTTTTCGAGGCTACCAAGGCCCTTGGGCCAC 251
 Db 226 GCAGCAAGTGTTCGCAATGAGATTATGATTTCTGTTTACCAAGGCCCTTGGACCTC 285
 Qy 252 CGGGCCCTCTCGCATTCAGGAACCATGGAACAAATGGCAACATGGAGCACTGTCTC 311
 Db 286 CAGTCTCTCTCGCATTCAGGAACCATGGAACAAATGGCAACATGGAGCACTGTCTC 345
 Qy 312 ATGAAGGAGCCCAAGGTCAGAGGCGGACAAAGTGTGACCTGGGGCTCGAGGGAGCGGG 371
 Db 346 ATGAAGGGGCCAAAGGTGAGAAAGGAGAGAAAGGCTACCCAGGGTGCACAGAACTGCA 405
 Qy 372 GGCACATGGCCCCAAAGAGAGAGAGGCTACCCGGGGATTCACCAAGCACTTCAGATTG 431
 Db 406 GGCAGCATGGCCCCAAAGAGAGAGAGGCTACCCAGGGTGCACAGAACTGCAATTG 465
 Qy 432 CATTTCATGGCTTCTCTGCAACCCACTTCAGCAATCAGCAAGTGGGATTTATCTTCAGCA 491
 Db 466 CATTTCATGGCTTCTCTGCAACCCACTTCAGCAATCAGCAAGTGGGATTTATCTTCAGCA 525
 Qy 492 GTGTTGAGACCAACATTCGAACTTCTTTTGATGTGATCATGCTGGTAGATTTGGGCCCCAG 551
 Db 526 GTGTTGAGACCAACATTCGAACTTCTTTGATGTGATCATGCTGGTAGATTTGGGCCCCAG 585
 Qy 552 TATCAGGTGTGATTTCTTCACCTTCAGCATGATGAACATGAGGATTTGAGGAAGTGT 611
 Db 586 TATCAGGTGTGATTTCTTCACCTTCAGCATGATGAACATGAGGATTTGAGGAAGTGT 645
 Qy 612 ATGTCTACCTTATGCAACATGCAACAGTCTTCAGCATGTACAGCTATGAATGAAGG 671
 Db 646 ATGTCTACCTTATGCAACATGCAACAGTCTTCAGCATGTACAGCTATGAATGAAGG 705
 Qy 672 GCAATCAGATACATCCAGCAATCTGCTGTGCTGAAGCTAGCCAAAGGGATGAGGTTT 731
 Db 706 GAAATCAGATACATCCAGCAACCATGCTGCTGAAGCTTGGCCAAAGGATGAGGTTT 765
 Qy 732 GGCTCGCAATGGCAATGGGCTCTCCATGGGGACCACCAAGCTTCTCCACCTTTGCGAG 791
 Db 766 GGCTGAAGATGGCAATGGGCTCTCCATGGGGACCACCAAGCTTCTCCACCTTTGCGAG 825
 Qy 792 GATTCCTGCTCTTTGAACTAAGTAATATATGACTAGAACTAGCTTCCACTTTGGGGAAGA 851
 Db 826 GCTTCTGCTCTTTGAACTAAGTAATATATGACTAGAACTAGCTTCCACTTTGGGGAAGA 885
 Qy 852 CTGTTGAGCTGAGCT-GATTTCGTTAGCATCTGAGGAACATTAAGTTGAGGGTTTACAT 910
 Db 886 TTTATAGCTGAGCTAGGCTTGTAGGATATGAAGGATCTTGAAGTCGGGGGTTCTTTATG 945
 Qy 911 GCTGATTTCAAAAATTTATGTTGCAATGTTGTTGCACTTACAGCTTACAGCAATAATGT 970
 Db 946 GAGCATTTAAGTGTGTCATGCTCAGCTGCTACTTCTTAAATGGCATACCAATAATGT 1005
 Qy 971 TGGACAATTCAGGGGCTCA 989
 Db 1006 TGGATGCTTCAGGGGCTCA 1024

RESULT 21
 ID ABK35590
 XX standard; DNA; 960 BP.
 AC ABK35590;
 XX
 DT 08-MAY-2002 (first entry)
 XX Gene encoding novel human secreted or membrane-associated protein #9.
 DE Human; secreted protein; membrane-associated protein; hypertension;
 KW inflammatory disorder; neurological disorder; haematopoietic disorder;
 KW skeletal developmental disorder; growth abnormality; autoimmune disorder;
 KW neurodegenerative disorder; nervous system disorder; bacterial infection;

KW peripheral myelinopathy; viral infection; cancer; obesity; diabetes;
 XX hypotension; sexual development disorder; blood disorder; gene; ds.
 OS Homo sapiens.
 XX WO200204600-A2.
 PN 17-JAN-2002.
 XX 12-JUL-2001; 2001WO-US21985.
 PF 12-JUL-2000; 2000US-218033P.
 PR 21-AUG-2000; 2000US-226517P.
 XX (SMIK) SMITHKLINE BEECHAM CORP.
 PA (SMIK) SMITHKLINE BEECHAM PLC.
 PA (GLAX) GLAXO GROUP LTD.
 XX Agarwal P, Cogswell JP, Lai Y, Martensen SA, Rizvi SK, Strum JC;
 PI Smith RF, Xiang Z, Xie Q;
 PI WPI; 2002-188468/24.
 DR P-PSDB; AAU84370.
 XX Novel secreted and membrane-associated polypeptides and polynucleotides
 encoding the polypeptides, for preventing, treating and ameliorating
 cancers, mental or sexual developmental disorders, and malignant tumours
 Claim 2; Page 106; 151pp; English.
 XX The present invention relates to the isolation of novel human secreted
 or membrane-associated proteins and the genes encoding them. The
 sequences of the invention are useful for treating, preventing and
 ameliorating various diseases such as inflammatory disorders (e.g.
 asthma), neurological disorders (e.g. dementia), haematopoietic
 disorders, skeletal developmental disorders, growth abnormalities,
 neurodegenerative disorders (e.g. Huntington's disease), nervous system
 disorders, autoimmune disorders (e.g. rheumatoid arthritis),
 peripheral myelinopathies, viral and bacterial infections,
 alpha-mannosidosis, diabetes, cancers, malignant tumours, hyper- and
 hypotension, obesity, bulimia, anorexia, manic depression, delirium,
 mental retardation, Tourette's syndrome, schizophrenia, growth, mental
 or sexual development disorders, and dysfunctions of the blood cascade
 system including those leading to stroke. ABK35582-ABK35609 represent
 the genes encoding the novel human secreted or membrane-associated
 proteins of the invention.

Sequence 960 BP; 261 A; 232 C; 262 G; 205 T; 0 other;
 Query Match 38.5%; Score 659; DB 24; Length 960;
 Best Local Similarity 100.0%; Pred. No. 3.3e-181;
 Matches 659; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 159 AGTCTCCACAACCGGAGGACTACCCCGAGACTGCAGTAAGTGTGTCATGGAGACTACA 218
 Db 302 AGTCTCCACAACCGGAGGACTACCCCGAGACTGCAGTAAGTGTGTCATGGAGACTACA 361
 Qy 219 GCTTTTCGAGGCTACCAAGGCCCTTGGGCCACCGGGCTCTCTGGCATTTCCAGGAACC 278
 Db 362 GCTTTTCGAGGCTACCAAGGCCCTTGGGCCACCGGGCTCTCTGGCATTTCCAGGAACC 421
 Qy 279 ATGGAACAATGGCAACAATGGAGCACTGTGTCATGAAGGAGCCAAAGTGTGAGAGGGCG 338
 Db 422 ATGGAACAATGGCAACAATGGAGCACTGTGTCATGAAGGAGCCAAAGTGTGAGAGGGCG 481
 Qy 339 ACAAGGTTGACCTGGGGCTCGAGGGAGCGGGGCGACATGGCCCCAAAGGAGAGAGG 398
 Db 482 ACAAGGTTGACCTGGGGCTCGAGGGAGCGGGGCGACATGGCCCCAAAGGAGAGAGG 541
 Qy 399 GCTACCCGGGATTTCCACCAAGCTTCAGATTGTCATGCTTCTCTGCAACCCACT 458
 Db 542 GCTACCCGGGATTTCCACCAAGCTTCAGATTGTCATGCTTCTCTGCAACCCACT 601

[illegible]

CC The present sequence is one of a large number of 5' ESTs derived from
CC mRNAs encoding secreted proteins. An ORF has been identified within the
CC sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs
CC derived from 30 different tissues. EST sequences usually correspond
CC mainly to the 3' untranslated region (UTR) of the mRNA because they are
CC often obtained from oligo-dT primed cDNA libraries. Such ESTs are not
CC well suited for isolating cDNA sequences derived from the 5' ends of
CC mRNAs and even in those cases where longer cDNA sequences have been
CC obtained, the full 5' UTR is rarely included. 5' ESTs are derived from
CC mRNAs with intact 5' ends and can therefore be used to obtain full length
CC cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic,
CC gene therapy and chromosome mapping procedures. They are used to obtain
CC upstream regulatory sequences and to design expression and secretion
CC vectors.

XX Sequence 471 BP; 107 A; 130 C; 134 G; 99 T; 1 other;

Query Match 26.4%; Score 452; DB 21; Length 471;
Best Local Similarity 99.6%; Pred. No. 4.4e-121;
Matches 452; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGCATCTGCCGAGGAGACCGCTCTGGAGCTCTGCTCTCTCAGGAGACTCTGA 60
Db 12 GGCATCTGCCGAGGAGACCGCTCTGGAGCTCTGCTCTCTCAGGAGACTCTGA 71
Qy 61 GGCTCTGTGAGAAATCATGCTTTGGAGGAGCTCATCTATTGGCAACTGCTGGCTTTGTT 120
Db 72 GGCTCTGTGAGAAATCATGCTTTGGAGGAGCTCATCTATTGGCAACTGCTGGCTTTGTT 131
Qy 121 TTTCCTCCCTTTTGGCTGTGTCAGATGAATACATGAGTCTCCACAAACCGGAGGACT 180
Db 132 TTTCCTCCCTTTTGGCTGTGTCAGATGAATACATGAGTCTCCACAAACCGGAGGACT 191
Qy 181 ACCCCAGACTGCAGTAAGTGTTCATGGAGACTACAGCTTTCAGGCTACCAAGGCC 240
Db 192 ACCCCAGACTGCAGTAAGTGTTCATGGAGACTACAGCTTTCAGGCTACCAAGGCC 251
Qy 241 CCCTGGGCGCCCGGCGCTCTCTGGCATTCAGGAAACCATGGAACAATGCAACAATGG 300
Db 252 CCCTGGGCGCCCGGCGCTCTCTGGCATTCAGGAAACCATGGAACAATGCAACAATGG 311
Qy 301 AGCCACTGGTTCATGAAGGAGCCAAAGGTGAGAGGGCGACAAAGTGACCTGGGGCTTCG 360
Db 312 AGCCACTGGTTCATGAAGGAGCCAAAGGTGAGAGGGCGACAAAGTGACCTGGGGCTTCG 371
Qy 361 AGGGAGCGGGGCGAGCATGGCCCAAGAGGAGAGAGGGCTACCCGGGGATTCCACCAGA 420
Db 372 AGGGAGCGGGGCGAGCATGGCCCAAGAGGAGAGAGGGCTACCCGGGGATTCCACCAGA 431
Qy 421 ACTTCAGATTGCATTCATGGCTTCTCTGGCAACC 454
Db 432 ACTTCAGATTGCATTCATGGCTTCTCTGGMAACC 465

RESULT 25

AXX39551 standard; DNA; 472 BP.

AXX39551;

21-JUN-1999 (first entry)

Human secreted protein 5' EST SEQ ID NO 149.

KW Human; secreted protein; EST; expressed sequence tag; diagnosis;
KW forensic; gene therapy; chromosome mapping; signal peptide;
KW upstream regulatory sequence; cytokine activity; cell proliferation;
KW differentiation; haematopoiesis regulation; tissue growth regulation;
KW reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
KW thrombolytic; anti-inflammatory; tumour inhibition; ds.

OS Homo sapiens.

XX

PN

WO9906551-A2.

XX

PD 11-FEB-1999.

XX

PF 31-JUL-1998; 98WO-IB01235.

XX

PR 01-AUG-1997; 97US-0905133.

XX

PA (GEST) GENSET.

XX

PI Duclert A, Dumas Milne Edwards J, Lacroix B;

XX

DR WPI; 1999-153781/13.

XX

DR P-PSDB; AAY11485.

XX

PT New nucleic acids encoding human secreted - proteins obtained from
PT cDNA libraries prepared from substantia nigra, cerebellum, surrenals
PT and fetal brain tissue

XX

PS Claim 1; Page 263; 434pp; English.

XX

CC AAX39440 to AAX39597 represent 5' expressed sequence tags (ESTs) for
CC human secreted proteins, and encode the proteins given in AAY11374 to
CC AAY11531, respectively. The proteins given represent the signal peptide
CC and an N-terminal fragment of a secreted protein. The nucleic acid
CC sequences can be used for producing secreted human gene products. They
CC can also be used to develop products for diagnosis and therapy. The
CC proteins obtained may have cytokine activity, cell
CC proliferation/differentiation activity, haematopoiesis regulating
CC activity, tissue growth regulating activity, reproductive hormone
CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
CC activity, tumour inhibition activity or other activities. The products
CC can be used in forensic, gene therapy and chromosome mapping procedures.
CC The sequences can also be used for obtaining corresponding promoter
CC sequences. The nucleic acids encoding the signal peptide can be used for
CC directing extracellular secretion of a polypeptide or the insertion of a
CC polypeptide into a membrane, or importing a polypeptide into a cell.

XX Sequence 472 BP; 108 A; 130 C; 134 G; 99 T; 1 other;

Query Match 26.4%; Score 452; DB 20; Length 472;
Best Local Similarity 99.6%; Pred. No. 4.4e-121;
Matches 452; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGCATCTGCCGAGGAGACCGCTCTGGAGCTCTGCTCTCTCAGGAGACTCTGA 60
Db 13 GGCATCTGCCGAGGAGACCGCTCTGGAGCTCTGCTCTCTCAGGAGACTCTGA 72
Qy 61 GGCTCTGTGAGAAATCATGCTTTGGAGGAGCTCATCTATTGGCAACTGCTGGCTTTGTT 120
Db 73 GGCTCTGTGAGAAATCATGCTTTGGAGGAGCTCATCTATTGGCAACTGCTGGCTTTGTT 132
Qy 121 TTTCCTCCCTTTTGGCTGTGTCAGATGAATACATGAGTCTCCACAAACCGGAGGACT 180
Db 133 TTTCCTCCCTTTTGGCTGTGTCAGATGAATACATGAGTCTCCACAAACCGGAGGACT 192
Qy 181 ACCCCAGACTGCAGTAAGTGTTCATGGAGACTACAGCTTTCAGGCTACCAAGGCC 240
Db 193 ACCCCAGACTGCAGTAAGTGTTCATGGAGACTACAGCTTTCAGGCTACCAAGGCC 252
Qy 241 CCCTGGGCGCCCGGCGCTCTCTGGCATTCAGGAAACCATGGAACAATGCAACAATGG 300
Db 253 CCCTGGGCGCCCGGCGCTCTCTGGCATTCAGGAAACCATGGAACAATGCAACAATGG 312
Qy 301 AGCCACTGGTTCATGAAGGAGCCAAAGGTGAGAGGGCGACAAAGTGACCTGGGGCTTCG 360
Db 313 AGCCACTGGTTCATGAAGGAGCCAAAGGTGAGAGGGCGACAAAGTGACCTGGGGCTTCG 372
Qy 361 AGGGAGCGGGGCGAGCATGGCCCAAGAGGAGAGAGGGCTACCCGGGGATTCCACCAGA 420
Db 373 AGGGAGCGGGGCGAGCATGGCCCAAGAGGAGAGAGGGCTACCCGGGGATTCCACCAGA 432

Qy	421	ACTTCAGATTGCATTCATGGCTTCTCTGCACACC	454
Db	433	ACTTCAGATTGCATTCATGGCTTCTCTGGMACCC	466
RESULT: 26			
ABV56781			
ID	ABV56781	standard; cDNA; 472 BP.	
XX	AC	AC	
XX	ABV56781;		
XX			
DT	17-SEP-2002	(first entry)	
XX			
DE	Human prostate expression marker cDNA 56772		
XX			
KW	Human; prostate cancer; cytostatic; carcinogenic		
KW	pharmacogenomic marker; gene; ss.		
XX			
OS	Homo sapiens.		
XX			
PN	WO200160860-A2.		
XX			
PD	23-AUG-2001.		
XX			
PF	20-FEB-2001; 2001WO-US05171.		
XX			
PR	17-FEB-2000; 2000US-183319P.		
PR	16-MAR-2000; 2000US-189862P.		
PR	25-MAY-2000; 2000US-207454P.		
PR	09-JUN-2000; 2000US-211314P.		
PR	18-JUL-2000; 2000US-219007P.		
PR	13-DEC-2000; 2000US-355281P.		
XX			
PA	(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.		
XX			
PI	Schlegel R, Endege WO, Monahan JE;		
XX			
DR	WPI; 2001-662795/76.		
XX			
PT	Novel isolated nucleic acid molecule associated		
PT	prostate cells and correlating with presence		
PT	for detecting presence of prostate cancer, s		
XX			
PS	Claim 1; Page 10943; 11750pp; English.		
XX			
CC	The invention relates to an isolated nucleic		
CC	a nucleotide sequence given in Tables 1-9 (A		
CC	specification or its complement. (I) is use		
CC	(a) assessing whether a patient is afflicted		
CC	(b) monitoring the progression of prostate		
CC	(c) assessing the efficacy of a test compound		
CC	cancer in a patient;		
CC	(d) assessing the efficacy of a therapy for		
CC	in a patient;		
CC	(e) selecting a composition for inhibiting		
CC	(f) assessing the prostate cell carcinogenic		
CC	(g) determining whether prostate cancer has		
CC	(h) assessing the aggressiveness or indolence		
CC	patient;		
CC	(I) is also useful as a pharmacodynamic or		
XX			
SQ	Sequence 472 BP; 141 A; 105 C; 92 G; 134 T;		
Query Match	20.2%;	Score 345.6;	
Best Local Similarity	87.7%;	Pred. No. 4.4e	
Matches	400; Conservative	0; Mismatches	
QY	587	AAGCATGAGGATGTTTCAGGAAGTGATCTGTACCTTATG	
Db	17	ARCCATGAGGATGTGAGGAAGTGTTGTGTCTCTTATG	
QY	645	TCAGCATGTACAGCTATGAATGAAGGCGCAATCAGATAT	

Db	77.	TCAGCATGTCACGTTTATAAAGGAAGGGCAAAATCAAATCCTTCCACCAATTCCTCCTCTGTC	136
Qy	705	TGAAGCTAGCCAAAGGGATGAGGTTTGCTCGCAATGGGCAATGGCGCTCTCCATGGG	764
Db	137	TAAACCTTACCCAAAGGGGATAGGTTGGCGCTGCAATGGCAATGGCTCTTCTATGGG	196
Qy	765	ACCACCAACGCTTCTCCACCTTTGCAAGGATTCCTGCTCTTTGAAACTAAGTAAATATATG	824
Db	197	ACCACCAACGCTTCTCCACCTTTGCAAGGATCCCTGCTTTTGAACCTAATTAATTAATTTG	256
Qy	825	ACTAGANTAGCTCCACTTTGGGGAAGACCTTTAGCTGAGCTGATTTGTTAGCATCTGAGG	884
Db	257	ACTAAATCCCTCCATTTTGGGAAAACCTTTGACCTGACCTGATTTGTTCCAAATCTGAGG	316
Qy	885	AACATTAAAGCTTCAGGCTTTTACATTGCTGTATTCAAAAAATATTGCTTGCATGTTGT	944
Db	317	ACATTAAAGTGGAGGTTTTACTTTGCTGTATAAAAAAATATGGGTTCGAATGTTGT	376
Qy	945	TCAGCTACAGGTACACCAATAATGTTGGACAAATTCAGGGGCTCAGAGAATCAACCACA	1004
Db	377	TCACCTTACAGGCACACCAATAATGTTGGACAAATTCAGGGGCTCAAAAAACTCACCCACA	436
Qy	1005	AAATAGTCTCTCAGATGACCTTGACTAATATACTC	1040
Db	437	AAATAGTTTTCTCAAAATGACCTTGACTAATATACTC	472
RESULT 27			
AAF93419			
ID	AAF93419 standard; cDNA; 546 BP.		
AC	AAF93419;		
XX	XX		
XX	XX		
DT	21-MAY-2001 (first entry)		
XX	XX		
DE	cDNA encoding SRT protein isolated from prostate tissue SEQ ID 240.		
XX	XX		
KW	Human; SRT; gene therapy; gene mapping; tissue typing; ss.		
OS	Homo sapiens.		
XX	XX		
PN	W0200107611-A2.		
XX	XX		
PD	01-FEB-2001.		
XX	XX		
PF	21-JUL-2000; 2000WO-US200006.		
XX	XX		
PR	26-JUL-1999; 99US-0145701.		
XX	XX		
PA	(GETH) GENENTECH INC.		
XX	XX		
PI	Baker KP, Goddard A, Wood WT;		
XX	XX		
DR	WPI; 2001-112729/12.		
XX	XX		
PT	New isolated nucleic acid molecule encoding a SRT polypeptide is useful		
PT	for production of recombinant SRT polypeptides, gene mapping,		
PT	diagnosing genetic disorders and for gene therapy -		
XX	XX		
PS	Claim 2; Fig 240; 663pp; English.		
XX	XX		
CC	Sequences AAF93180 - AAF93743 represent polynucleotide sequences encod		
CC	human SRT proteins. The cDNA sequences are isolated from various		
CC	different human tissue cDNA libraries. The invention relates to a meth		
CC	for detecting cDNA encoding an SRT protein, a vector containing cDNA		
CC	encoding SRT, a host cell transformed with the vector, an isolated SRT		
CC	polypeptide, and an antibody which binds to SRT. The polynucleotide		
CC	sequence can be used in gene therapy and is useful in the recombinant		
CC	production of SRT polypeptides, as a hybridisation probe to screen		
CC	libraries to isolate cDNAs with sequence identity to SRT polypeptides,		
CC	map the gene encoding the SRT polypeptides and analysing genetic		
CC	disorders, tissue typing and disease tissue detection. The SRT		
CC	polynucleotide sequences can be used in polymerase chain reaction,		

Best Local Similarity 97.9%; Pred. No. 4.9e-29; Matches 138; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 422 CTTTCAGATTGCATTCATGGCTTCTCTGGCAACCCACTTCAGCAATCAGAACAGTGGGATT 481
DB 326 CCTTAGATTGCATTCATGGCTTCTCTGGCAACCCACTTCAGCAATCAGAACAGTGGGATT 385
QY 482 ATCTTCAGCAGTGTTCAGACCAACATTTGAAACTTCTTTGATGTCATGACTGGTAGATT 541
DB 386 ATCTTCAGCAGTGTTCAGACCAACATTTGAAACTTCTTTGATGTCATGACTGGTAGATT 445
QY 542 GGGGCCCCAGTATCAGGTGTG 562
DB 446 GGGGCCCCAGTATCAGGTGAG 466

RESULT 30

AAK34347

ID AAK34347 standard; DNA; 548 BP.

AC AAK34347;

XX 06-NOV-2001 (first entry)

XX Human bone marrow expressed single exon probe SEQ ID NO: 8904.

KW Human; bone marrow expressed exon; gene expression analysis; probe;
KW microarray; cancer; leukaemia; lymphoma; myeloma; ss.

OS Homo sapiens.

XX WO200157276-A2.

PN 09-AUG-2001.

XX 30-JAN-2001; 2001WO-US00668.

XX 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0236359.

PR 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

PI Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-488900/53.

XX Human genome-derived single exon nucleic acid probes useful for

PT analyzing gene expression in human bone marrow -

XX Example 4; SEQ ID NO: 8904; 658pp + Sequence Listing; English.

XX The present invention provides a number of single exon nucleic acid

CC probes which are derived from genomic sequences expressed in the human

CC bone marrow. They can be used to measure gene expression in bone marrow

CC samples, which may enable the improved diagnosis and treatment of cancers

CC such as lymphoma, leukaemia and myeloma. The present sequence is one of

XX the probes of the invention.

XX Query Match 8.0%; Score 136.2; DB 22; Length 548;

XX Best Local Similarity 97.9%; Pred. No. 4.9e-29; Matches 138; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 422 CTTTCAGATTGCATTCATGGCTTCTCTGGCAACCCACTTCAGCAATCAGAACAGTGGGATT 481
DB 326 CCTTAGATTGCATTCATGGCTTCTCTGGCAACCCACTTCAGCAATCAGAACAGTGGGATT 385

QY 482 ATCTTCAGCAGTGTTCAGACCAACATTTGAAACTTCTTTGATGTCATGACTGGTAGATT 541
DB 386 ATCTTCAGCAGTGTTCAGACCAACATTTGAAACTTCTTTGATGTCATGACTGGTAGATT 445
QY 542 GGGGCCCCAGTATCAGGTGTG 562
DB 446 GGGGCCCCAGTATCAGGTGAG 466

Search completed: March 13, 2003, 15:58:42
Job time : 441 secs

GenCore version 5.1.4_p5_4578
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OM protein - nucleic search, using frame_plus_p2n model

Run on: March 13, 2003, 16:22:07 ; Search time 263 Seconds
(without alignments)
2106.432 Million cell updates/sec

Title: US-10-036-041-2

Perfect score: 1367

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-DB=N_Geneseq_101002 -OFMT=fastap -SUFFIX=ring -MINMATCH=0.1 -LOOPCL=0
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-LIST=45 -DOALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=30
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-WARN_TIMEOUT=30 -THREADS=10 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match %	Length	DB	ID	Description
1	1367	100.0	741	24	ABK35591	Gene encoding nove
2	1367	100.0	1696	21	AAC64058	Human zacrp3 cDNA,
3	1367	100.0	1709	22	AAP93874	Human cDNA encodin
4	1367	100.0	1712	21	AA96336	cDNA encoding a no
5	1367	100.0	1760	21	AA95787	Human immune syste
6	1320.5	96.6	960	24	ABK35590	Gene encoding nove
7	1311	95.9	1035	22	AAC99776	Skin cell cDNA, SE
8	1311	95.9	1035	24	ABL34928	Rat cDNA isolated
9	1311	95.9	1117	21	ABL34064	Mouse zacrp2 DNA,
10	1311	95.9	1123	21	AAZ61633	cDNA encoding rat
11	1311	95.9	1123	21	AAZ61730	cDNA encoding rat
12	1311	95.9	1123	22	AAC99566	Skin cell cDNA, SE
13	1311	95.9	1123	22	AAC99663	Skin cell cDNA, SE
14	1311	95.9	1123	24	ABL34718	Rat cDNA isolated
15	1311	95.9	1123	24	ABL34815	Rat cDNA isolated
16	1291.5	94.5	1927	22	AAZ12584	Human protein havi
17	1259	92.1	810	22	AAF94076	Primer specific fo
18	1211	88.6	1792	22	AAI59230	Human polynucleoti
19	1208	88.4	1620	22	AAI99523	Human polynucleoti
20	1171	85.7	738	21	AAC64063	Human zacrp3 degen
c	858.5	62.8	1799	22	AAI61016	Human polynucleoti
22	849	62.1	1608	24	ABK35221	Human cDNA encodin
23	721	52.7	471	21	AAC02874	Human secreted pro
24	721	52.7	472	20	AAK39551	Human secreted pro
25	513.5	37.6	546	22	AAK93419	CDNA encoding SRT
26	325	23.8	804	24	ABK35598	Gene encoding nove
27	316	23.1	1107	21	AAZ61744	CDNA encoding rat
28	316	23.1	1107	22	AAC99677	CDNA encoding rat
29	316	23.1	1107	24	ABL34829	Rat cDNA isolated
30	315	23.0	870	22	ABK3430a g	Human SBHACRP30a g
31	315	23.0	870	24	ABO86182	Novel human gene.
32	315	23.0	912	22	AAZ16351	Human SBHACRP30a g
33	315	23.0	912	22	AAC89867	Human zacrp7 cDNA.
34	315	23.0	1242	24	AAZ44066	Human genset metab
35	315	23.0	1297	24	ABK94966	Human novel polynu
36	313	22.9	855	21	AAC67788	Murine ACRP30R1M c
37	309	22.6	1282	22	AAC89875	Mouse zacrp7 cDNA.
38	306	22.4	1052	21	AAZ61811	CDNA encoding rat
39	306	22.4	1052	22	AAC99744	Skin cell cDNA, SE
40	306	22.4	1052	24	ABL34896	Rat cDNA isolated
41	306	22.4	1161	21	AAC65132	Human adipocyte co
42	306	22.4	1171	22	AAS31128	Human diagnostic a
43	306	22.4	1171	24	ABO54564	Human ovarian anti
44	304	22.2	932	21	AAZ45606	CDNA encoding poly
45	299	21.9	1276	18	AAZ51048	Murine adipocyte c

ALIGNMENTS

RESULT 1

ABK35591
ID ABK35591 standard; DNA; 741 BP.

XX

AC ABK35591;

XX

DT 08-MAY-2002 (first entry)

XX

DE Gene encoding novel human secreted or membrane-associated protein #10.

XX

DE Human; secreted protein; membrane-associated protein; hypertension;

XX

DE Human; secreted protein; membrane-associated protein; hypertension;

XX

DE Human; secreted protein; membrane-associated protein; hypertension;

XX

DE Human; secreted protein; membrane-associated protein; hypertension;

XX

DE Human; secreted protein; membrane-associated protein; hypertension;

XX

DE Human; secreted protein; membrane-associated protein; hypertension;

XX

DE Human; secreted protein; membrane-associated protein; hypertension;

XX
PN WO200204600-A2.
XX
XX 17-JAN-2002.
XX
XX 12-JUL-2001; 2001WO-US21985.
XX
XX 12-JUL-2000; 2000US-218033P.
PR 21-AUG-2000; 2000US-226517P.
XX
XX (SMIK) SMITHKLINE BEECHAM CORP.
PA (SMIK) SMITHKLINE BEECHAM PLC.
PA (GLAX) GLAXO GROUP LTD.
XX
PI Agarwal P, Cogswell JP, Lai Y, Martensen SA, Rizvi SK, Strum JC;
PI Smith RF, Xiang Z, Xie Q;
XX
XX WPI; 2002-188468/24.
DR P-PSDB; AAU84371.
XX
XX Novel secreted and membrane-associated polypeptides and polynucleotides
PT encoding the polypeptides, for preventing, treating and ameliorating
PT cancers, mental or sexual developmental disorders, and malignant tumours
PT
PT
XX
XX Claim 2: Page 106; 151pp; English.
XX
XX The present invention relates to the isolation of novel human secreted
CC or membrane-associated proteins and the genes encoding them. The
CC sequences of the invention are useful for treating, preventing and
CC ameliorating various diseases such as inflammatory disorders (e.g.
CC asthma), neurological disorders (e.g. dementia), haematopoietic
CC disorders, skeletal developmental disorders, growth abnormalities,
CC neurodegenerative disorders (e.g. Huntington's disease), nervous system
CC disorders, autoimmune disorders (e.g. rheumatoid arthritis),
CC peripheral myelinopathies, viral and bacterial infections,
CC alpha-mannosidosis, diabetes, cancers, malignant tumours, hyper- and
CC hypotension, obesity, bulimia, anorexia, manic depression, delirium,
CC mental retardation, Tourette's syndrome, schizophrenia, growth, mental
CC or sexual development disorders, and dysfunctions of the blood cascade
CC system including those leading to stroke. ABK35582-ABK35609 represent
CC the genes encoding the novel human secreted or membrane-associated
CC proteins of the invention.
XX
XX Sequence 741 BP; 191 A; 178 C; 200 G; 172 T; 0 other;

Alignment Scores:
Pred. No.: Length: 745e-100 741
Score: 1367.00 Matches: 246
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 24 Gaps: 0

US-10-036-041-2 (1-246) x ABK35591 (1-741)

QY 1 MetLeuTrpArgGlnLeuIleTyrTrpGlnLeuAlaLeuPheLeuPropheCys 20
DB 1 ATGCTTTGGAGGCGAGCTCATCTATTGGCAACTGCTGGCTTTGTTTCTCCCTTTTTCG 60
QY 21 LeuCysGlnAspGluTyrMetGluSerProGlnThrGlyGlyLeuProProAspCysSer 40
DB 61 CTGTGTCAAGTGAATACATGGAGTCTCCACAACCGGAGGACTACCCCGAGACTGCAGT 120
QY 41 LysCysCysHisGlyAspTyrSerPheArgGlyTyrGlnGlyProProGlyProGly 60
DB 121 AAGTGTGTTCATGGAGCTACAGCTTTCGAGGCTACCAAGGCCCTCGGCCACCGGGC 180
QY 61 ProProGlyIleProGlyAsnHisGlyAsnAsnGlyAsnAsnGlyAlaThrGlyHisGlu 80
DB 181 CCTCTGGCATTCAGGAACCAATGGAAACAATGGCAACAATGGAGCCACTGTCATGAA 240
QY 81 GlyAlaLysGlyGluLysGlyAspLysGlyAspLeuGlyProArgGlyGluArgGlyGln 100

DB 241 GGAGCCAAAGGTGAGAGGGCGCAAAAGGTGACCTGGGGCTCAGGGGAGCGGGGCGAG 300
QY 101 HisGlyProLysGlyGlyLysGlyTyrProGlyIleProGlyLeuProGlyLeuGlnIleAlaPhe 120
DB 301 CATGGCCCCAAAGGAGAGAGGGCTACCCGGGATCCACCAGAACTTCAGATTGCATTC 360
QY 121 MetAlaSerLeuAlaThrHisPheSerAsnGlnAsnSerGlyIleIlePheSerSerVal 140
DB 361 ATGGCTTCTCTGGCAACCCCACTTCAGCAATCAGAACAAGTGGGATATCTTCAGCAGTGT 420
QY 141 GluThrAsnIleGlyAsnPhePheAspValMetThrGlyArgPheGlyAlaProValSer 160
DB 421 GAGACCAACATTCGAAACTCTTTTGATGTCATGCTAGATTGGGGCCCCAGGATCA 480
QY 161 GlyValTyrPhePheThrPheSerMetMetLysHisGluAspValGluGluValTyrVal 180
DB 481 GGTGTGTATTTCTTCACTTCAGCATGATGAAGCATGAGGATCTTGAGGAAGTGTATGTG 540
QY 181 TyrLeuMetHisAsnGlyAsnThrValPheSerMetTyrSerTyrGluMetLysGlyLys 200
DB 541 TACCTTATGCACATGGCAACACAGCTCTTCAGCATGTACAGCTATGAATGAAGGGCAAA 600
QY 201 SerAspThrSerSerAsnHisAlaValLeuLysLeuAlaLysGlyAspGluValTyrLeu 220
DB 601 TCAGATACATCCAGCAATCATGCTGTGCTGAGCTAGCCAAAGGGATGAGGTTGGCTG 660
QY 221 ArgMetGlyAsnGlyAlaLeuHisGlyAspHisGlnArgPheSerThrPheAlaGlyPhe 240
DB 661 CGAATGGCAATGGCTCTCCATGGGGACCAACCAAGCTTCTCCACCTTTGCAGGATTC 720
QY 241 LeuLeuPheGluThrLys 246
DB 721 CTGCTCTTGAACACTAAG 738

RESULT 2
AAC64058
ID AAC64058 standard; cDNA; 1696 BP.
XX
AC AAC64058;
XX
DT 19-FEB-2001 (first entry)
XX
DE Human zacr3p3 cDNA, SEQ ID NO:1.
XX
KW Human zacr3p3; adipocyte complement related protein homologue;
KW ACRP30; C1q domain; collagen-like domain; energy balance modulation;
KW cellular metabolism; metabolic disorder; obesity; anorexia;
KW antimicrobial agent; infection; platelet aggregation inhibition;
KW adhesion; activation; vascular injury; antibacterial; antiviral; ss.
OS Homo sapiens.
XX
PN WO200063377-A1.
XX
PD 26-OCT-2000.
XX
PF 19-APR-2000; 2000WO-US10454.
XX
PR 20-APR-1999; 99US-0294943.
XX
PA (ZYMO) ZYMOGENETICS INC.
XX
PI Piddington CS, Bishop PD;
XX
DR WPI; 2000-665243/64.
DR P-PSDB; AAB29580.
XX
PT Novel zacr3p3 polypeptides used to treat or prevent bacterial or viral
PT infections, for wound healing, improving blood flow, and to analyze
PT energy efficiency in mammals -
XX
PS Claim 31; Page 107-109; 123pp; English.

XX The invention relates to the human zacr3 protein (AAB29580) and to
 CC nucleic acids which encode it (AAC64058, AAC64063). Zacr3 is a homologue
 CC of adipocyte complement related protein (ACRP30) and contains a
 CC collagen-like domain comprising Gly-Xaa-Xaa or Gly-Xaa-Pro repeats, and a
 CC C-terminal C1q domain comprising 10 beta-strands. The zacr3 gene is
 CC located on chromosome 5p12. The invention also relates to zacr3
 CC fragments, fusion proteins containing zacr3 polypeptides,
 CC zacr3-specific antibodies, expression constructs and host cells
 CC comprising zacr3 nucleic acids, and methods of recombinant production of
 CC zacr3. Human zacr3, and its agonists and antagonists may be used in the
 CC study and modulation of cellular metabolism and energy balance in
 CC mammals, and may therefore be used to treat disorders such as obesity and
 CC anorexia, and conditions associated with these disorders. Due to its C1q
 CC like domain, zacr3 and zacr3-containing fusion proteins may be useful
 CC as antimicrobial agents, promoting lysis or phagocytosis of infectious
 CC organisms such as bacteria or viruses. Zacr3, its fragments, fusion
 CC proteins, antibodies and activity modulators may also be used to inhibit
 CC collagen-induced platelet aggregation, adhesion, or activation, and may
 CC therefore have potential for promoting blood flow within the vasculature
 CC of a mammal e.g., to treat injury to the vasculature or other collagenous
 CC tissue. Human zacr3 and its antibodies may additionally be used to study
 CC dimerisation and oligomerisation. The present sequence represents cDNA
 CC encoding human zacr3.
 XX

SQ Sequence 1696 BP; 482 A; 355 C; 386 G; 473 T; 0 other;

Alignment Scores:

Pred. No.:	1.94e-99	Length:	1696
Score:	1367.00	Matches:	246
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	21	Gaps:	0

US-10-036-041-2 (1-246) x AAC64058 (1-1696)

QY	1	MetLeuTpArgGlnLeuLetyrTrpGlnLeuLeuAlaLeuPhePheLeuProPheCys	20
DB	69	ATGCTTTGGAGCAGCTCATCTATTGGCACTGCTGGCTTTGTTTCTCCCTTTTGC	128
QY	21	LeuCysGlnAspGluTyrrMetGluSerProGlnThrGlyLeuProProAspCysSer	40
DB	129	CTGTGTCAGATGAATACATGAGTCTCCACAAACGGAGGACTACCCCCAGACTGCAC	188
QY	41	LysCysCysHisGlyAspTyrrSerPheArgGlyTyrrGlnGlyProProGlyProGly	60
DB	189	AAGTGTTCATGGAGACTACAGCTTTCGAGCTACCAAGGCCCTCCCTGGCCACCGGC	248
QY	61	ProProGlyIleProGlyAsnHisGlyAsnGlnAsnGlyValaThrGlyHisGlu	80
DB	249	CCTCTGGCATTCAGGAACCATGGAACAAATGGCAACATGGAGCCACTGCTCATGAA	308
QY	81	GlyAlaLysGlyGluLysGlyAspLysGlyAspLeuGlyProArgGlyGluArgGlyGln	100
DB	309	GGAGCAAGGPGAGAGGGGCACAAAGTGACCTGGGSCCTCGAGGGAGCGGGGCGAG	368
QY	101	HisGlyProLysGlyGluLysGlyTyrrProGlyIleProProGluLeuGlnIleAlaPhe	120
DB	369	CATGGCCCCAAAGGAGAGAGGGCTACCCGGGGATTCACCAAGAACTTCAGATTGCAT	428
QY	121	MetAlaSerLeuAlaThrHisPheSerAsnGlnAsnSerGlyIlePheSerVal	140
DB	429	ATGGCTTCTCTGGCAACCCATTCAGCAATCAGACAGTGGGATTCATCTTCAGAGTGT	488
QY	141	GluThrAsnIleGlyAsnPhePheAspValMetThrGlyArgPheGlyAlaProValSer	160
DB	489	GAGACCAACATTGGAAACTCTTTTGTATGTCATGCTAGTGGTGGGGCCCGCAGTATCA	548
QY	161	GlyValTyrrPhePheThrPheSerMetMetLysHisGluAspValGluValTyrrVal	180
DB	549	GCTGTGTATTCTTCACCTTCAGCATGATGAAGCATGAGGATGTTGAGGAAGTGTATGTC	608

QY	181	TyrLeuMetHisAsnGlyAsnThrValPheSerMetTyrSerTyrGluMetLysGlyLys	200
DB	609	FACCTTATGCCAATGGCAACACAGCTCTCAGCATGTACAGTATGAATGAAGGCCAA	668
QY	201	SerAspThrSerSerAsnHisAlaValLeuLysLeuAlaLysGlyAspGluValTrpLeu	220
DB	669	TCAGATACATCCAGCAATCATGCTGTGCTGAAGCTAGCCAAAGGGGATGAGGTTGGCTG	728
QY	221	ArgMetGlyAsnGlyAlaLeuHisGlyAspHisGlnArgPheSerThrPheAlaGlyPhe	240
DB	729	CGAATGGCAATGGGCGCTCTCCATGGGACCAACAGCTTCCACCTTCAGGATTC	788
QY	241	LeuLeuPheGluThrLys	246
DB	789	CTGCTCTTTGAACCTAAG	806
RESULT 3			
AAF93874			
ID	AAF93874	standard; cDNA; 1709 BP.	
XX			
AC	AAF93874;		
XX			
DT	23-MAY-2001	(first entry)	
XX			
DE		Human cDNA encoding a membrane or secretory protein clone PSEC0232.	
XX			
KW		Human; secretory protein; membrane protein; vaccine; gene therapy;	
KW		rheumatoid arthritis; diabetes; ss.	
XX			
OS		Homo sapiens.	
XX			
PN		EP1067182-A2.	
XX			
PD		10-JAN-2001.	
XX			
PF		07-JUL-2000; 2000EP-0114090.	
XX			
PR		08-JUL-1999; 99JP-0194179.	
PR		11-JAN-2000; 2000JP-0118775.	
PR		02-MAY-2000; 2000JP-0183766.	
XX			
PA		(HELI-) HELIX RES INST.	
XX			
PI		Ota T, Isogai T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;	
XX			
DR		WPI: 2001-093989/11.	
DR		P-PSDB; AAB88447.	
XX			
PT		Nucleic acids encoding secretory proteins/membrane proteins, useful in	
PT		gene therapy or as candidate target molecules in drug development -	
XX			
PS		Claim 1; SEQ ID 261; 609pp + CD ROM; English.	
XX			
CC		This invention relates to nucleic acid sequences AAF93744 - AAF93916	
CC		which encode human secretory or membrane proteins represented by	
CC		AAF88317 - AAB88419. Included in the invention are primers	
CC		AAF93917 - AAF94295 and AAF62232 - AAF62235 which are used to isolate the	
CC		cDNA sequences of the invention. The invention also includes methods for	
CC		the production of antibodies directed against the proteins, and cDNA	
CC		sequences, which can be used in vaccines. The polynucleotide sequences	
CC		can be used in gene therapy. The polynucleotide sequences and the	
CC		proteins they encode may be used in the prevention, treatment and	
CC		diagnosis of diseases associated with inappropriate secretory	
CC		protein/membrane protein expression. The nucleic acids and complementary	
CC		sequences may also be used as cDNA probes in diagnostic assays	
CC		(e.g. polymerase chain reactions (PCR)) to detect and quantitate the	
CC		presence of similar nucleic acid sequences in samples. They may also be	
CC		used to study the expression and function of secretory proteins/membrane	
CC		polypeptides and their role in metabolism. The polypeptides may be used	
CC		as antigens in the production of antibodies against them and in assays to	
CC		identify modulators (agonists and antagonists) of expression and	
CC		activity. The antibodies and antagonists may also be used as therapeutic	
CC		agents to down regulate expression and activity. The antibodies may also	

CC be used as diagnostic agents for detecting the presence of the
 CC polypeptides in samples (e.g. by enzyme linked immunosorbant assay
 CC (ELISA). Examples of diseases which may be treated include rheumatoid
 CC arthritis and diabetes.
 XX

SQ Sequence 1709 BP; 480 A; 363 C; 390 G; 476 T; 0 other:

Alignment Scores:
 Pred. No.: 1.96e-99 Length: 1709
 Score: 1367.00 Matches: 246
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 Gaps: 22

US-10-036-041-2 (1-246) x AAF93874 (1-1709)

QY 1 MetLeuTrpArgGlnLeuIleTyrTrpGlnLeuLeuAlaLeuPhePheLeuProPheCys 20
 Db 89 ATGCTTGGAGGAGCTATCTATTTGGCACTGCTGGCTTTGTTTCTCTCTTTTTC 148
 QY 21 LeuCysGlnAspGluTyrMetGluSerProGlnThrGlyGlyLeuProAspCysSer 40
 Db 149 CTGTGTCAAGATGAATACATGAGTCTCCACAAACGGAGGACTACCCCGAGACTGC 208
 QY 41 LysCysCysHisGlyAspTyrSerPheArgGlyTyrGlnGlyProGlyProGly 60
 Db 209 AAGTGTGTTCATGGAGACTACAGCTTTTCGAGGCTACCAAGGCCCTCGGGCCG 268
 QY 61 ProProGlyIleProGlyAsnHisGlyAsnAsnGlyAsnGlyAlaThrGlyHisGlu 80
 Db 269 CTCTCTGGCATTCAGGAACCAATGGAACATGGCAATGGAGCCACTGGTCATGAA 328
 QY 81 GlyAlaLysGlyGlyGlyAspLysGlyAspLeuGlyProArgGlyGluArgGlyGln 100
 Db 329 GGAGCAAAAGTGTAGAAGGCCACAAAGGTGACCTGGGGCCCTCGAGGGAGCGG 388
 QY 101 HisGlyProLysGlyGlyGlyTyrProGlyIleProProGlyLeuGlnIleAlaPhe 120
 Db 389 CATGGCCCCAAAGGAGAGAGGGCTACCGGGGATTCACCAAGAACTTCAGATTGC 448
 QY 121 MetAlaSerLeuAlaThrHisPheSerAsnGlnAsnSerGlyIleIlePheSerVal 140
 Db 449 ATGGCTTCTCTGCAACCACTTCAGCAATCAGACAGTGGGATATCTTCAGCAGT 508
 QY 141 GluThrAsnIleGlyAsnPhePheAspValMetThrGlyArgPheGlyAlaProValSer 160
 Db 509 GAGACCAACATTTGGAACCTCTTTGATGTCATGACTGTAGATTGGGGCCCGCAT 568
 QY 161 GlyValTyrPhePheThrPheSerMetMetLysHisGluAspValGluValTyrVal 180
 Db 569 GGTGTGTATTTCTCACCTTCAGCATGATGAGCATGAGGATGTTGAGGAAGTGTAT 628
 QY 181 TyrLeuMetHisAsnGlyAsnThrValPheSerMetTyrSerTyrGluMetLysGlyLys 200
 Db 629 TACCTTATGCAATGCAATGCAACACACTTCACCATGTACAGCTATGAATGAGGGCAA 688
 QY 201 SerAspThrSerSerAsnHisAlaValLeuLysLeuAlaLysGlyAspGluValTrpLeu 220
 Db 689 TCAGATACATCCAGCAATCATCTGTGTGAGCTAGCTAGGATGAGGAGGATGAG 748
 QY 221 ArgMetGlyAsnGlyAlaLeuHisGlyAspHisGlnArgPheSerThrPheAlaGlyPhe 240
 Db 749 CGAATGGGCAATGGCGCTCTCATGGGACCAACCAACGCTTCTCCACCTTTGAG 808
 QY 241 LeuLeuPheGluThrLys 246
 Db 809 CTGCTCTTTGAACTAAG 826

RESULT 4

AAA96336

ID AAA96336 standard; cDNA: 1712 BP.

XX

AC
XX
DT
XX
DE
XX
KW
KW
KW
KW
KW
KW
KW
KW
OS
XX
FH
FH
FT
FT
FT
FT
PN
XX
PD
XX
PF
XX
PR
PR
PR
PR
PR
PR
PR
PR
PR
PR
PR
PR
PR
PA
PI
PI
XX
DR
DR
PT
PT
PT
PS
XX
CC
CC
CC
CC
CC
CC
CC
CC
CC
CC
CC

AAA96336;

08-FEB-2001 (first entry)

cDNA encoding a novel polypeptide designated PRO1484.

Secreted protein; transmembrane protein; PRO1484; PRO4334; PRO1122;
 PRO1889; PRO1890; PRO1887; PRO1785; PRO4353; PRO4357; PRO4405; PRO4356;
 PRO4352; PRO4380; PRO4354; PRO4408; PRO5737; PRO4425; PRO5990; PRO6030;
 PRO4424; PRO4430; PRO4439; tumour; obesity; diabetes;
 insulinemia; kidney disorder; Bergers disease; nephropathy;
 Schonelein-Henoch purpura; celliac disease; dermatitis herpetiformis;
 Crohns disease; ss.

Homo sapiens.

Key Location/Qualifiers

CDS 77..817

sig_peptide /tag= a

77..142

/tag= b

WO200056889-A2.

28-SEP-2000.

01-MAR-2000; 2000WO-US05601.

23-MAR-1999; 99US-0125774.

23-MAR-1999; 99US-0125778.

24-MAR-1999; 99US-0125826.

31-MAR-1999; 99US-0127035.

05-APR-1999; 99US-0127706.

21-APR-1999; 99US-0130359.

27-APR-1999; 99US-0131270.

27-APR-1999; 99US-0131272.

27-APR-1999; 99US-0131291.

04-MAY-1999; 99US-0132371.

04-MAY-1999; 99US-0132379.

04-MAY-1999; 99US-0132383.

25-MAY-1999; 99US-0135750.

20-JUL-1999; 99US-0138166.

20-JUL-1999; 99US-0144791.

03-AUG-1999; 99US-0146970.

09-DEC-1999; 99US-0170262.

(GETH) GENENTECH INC.

Desnoyers L, Eaton DL, Goddard A, Godowski PJ, Gurney AL, Pan J;

Stewart TA, Watanabe CK, Wood WI, Zhang Z;

WPI; 2000-628263/60.

P-PSDB; AAB18909.

Novel secreted and transmembrane polypeptides useful for diagnosing
 tumour in a mammal, for identifying agonists and antagonists of the
 polypeptide and for therapeutic use

Claim 2; Fig 1; 222pp; English.

The present sequence encodes a secreted or transmembrane polypeptide.
 The specification describes polypeptides designated PRO1484, PRO4334,
 PRO1122, PRO1889, PRO1890, PRO1887, PRO1785, PRO4353, PRO4405, PRO4403,
 PRO4352, PRO4380, PRO4354, PRO4408, PRO5737, PRO4425, PRO5990, PRO6030,
 PRO4424, PRO4430, PRO4439, tumour, obesity, diabetes, nephropathy is
 useful for diagnosing tumour in a mammal. The polypeptides, their
 agonists and antagonists are useful treating a condition associated with
 expression or activity of the polypeptide. Conditions treated include
 obesity, diabetes or hyper- or hypo-insulinemia. The polypeptides are
 capable of inducing proliferation of mammalian kidney mesangial cells
 and are therefore useful for treating kidney disorders associated with
 decreased mesangial cell function such as Bergers disease or other
 nephropathies associated with Schonelein-Henoch purpura, celliac disease,

CC dermatitis herpeticiformis or Crohns disease. The nucleic acids may be used
 CC to generate transgenic animals for use in development and screening of
 CC therapeutically useful reagents and also for chromosome identification
 CC and tissue typing.

XX SQ Sequence 1712 BP; 491 A; 358 C; 388 G; 475 T; 0 other;

Alignment Scores:
 Pred. No.: 1.96e-99 Length: 1712
 Score: 1367.00 Matches: 246
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 21 Gaps: 0

US-10-036-041-2 (1-246) x AAA96336 (1-1712)

Qy 1 MetLeuTrpArgGlnLeuIleTyrTrpGlnLeuLeuAlaLeuPhePheLeuProPheCys 20
 Db 77 ATGCTTTGGAGCAGCTCATCTATTGGCACTGCTGGCTTTGTTTCTCCCTTTTTC 136
 Qy 21 LeuCysGlnAspGluTyrMetGluSerProGlnThrGlyGlyLeuProProAspCysSer 40
 Db 137 CTGTCTCAAGATGAATACATGAGTCTCCACAAACCGGAGGACTACCCACAGACTGCAGT 196
 Qy 41 LysCysCysHisGlyAspTyrSerPheArgGlyTyrGlnGlyProProGlyProGly 60
 Db 197 AAGTCTTTCATGGAGACTACAGCTTTTCGAGGCTACCAAGGCCCTCCCTGGGCGCACGGGC 256
 Qy 61 ProProGlyIleProGlyAsnHisGlyAsnAsnGlyAsnGlyValAlaThrGlyHisGlu 80
 Db 257 CCTCTGCATCTCCAGGAACCATGGAACCAATGCGACATGGAGCCACTGGTCATGAA 316
 Qy 81 GlyAlaLysGlyGluLysGlyAspLysGlyAspLeuGlyProArgGlyGluArgGlyGln 100
 Db 317 GGAGCAAGGTGAGAAGGGCCACAAAGTCACTGGGCTCGAGGGGAGCGGGGGCAG 376
 Qy 101 HisGlyProLysGlyGluLysGlyTyrProGlyIleProProGlyLeuGlnIleAlaPhe 120
 Db 377 CATGGCCCAAGGAGAGAGAGGGCTTACCCGGGGATTCCACCAGAACTTCAGATTGCATTC 436
 Qy 121 MetAlaSerLeuAlaThrHisPheSerAsnGlnAsnSerGlyIleIlePheSerSerVal 140
 Db 437 ATGGCTTCTTCGGCAACCCACTTCAGCAATCAGAACAGTGGGATATCTTCAGCAGTGT 496
 Qy 141 GluThrAsnIleGlyAsnPhePheAspValMetThrGlyArgPheGlyAlaProValSer 160
 Db 497 GAGACCAACATTTGGAAGCTTCTTTCATGTCATGCTAGTGTAGATTGGGGCCCACTATCA 556
 Qy 161 GlyValTyrPhePheThrPheSerMetLysHisGluAspValGluGluValTyrVal 180
 Db 557 GGTGTGTATTTCTTACCTTCAGCATGATGAAGCATGAGGATGTTGAGGAAGTGTATGTG 616
 Qy 181 TyrLeuMetHisAsnGlyAsnThrValPheSerMetTyrSerTyrGluMetLysGlyLys 200
 Db 617 TACCTTATGACAAATGGCAACACAGCTCTTCAGCATGTACAGTATGAATGAAGGCGAA 676
 Qy 201 SerAspThrSerSerAsnHisAlaValLeuLysLeuAlaLysGlyAspGluValTrpLeu 220
 Db 677 TCAGATACATCAGCAATCATGCTGTGCTGAAGCTAGCAAAAGGGGATGAGGTTTGGCTG 736
 Qy 221 ArgMetGlyAsnGlyAlaLeuHisGlyAspHisGlnArgPheSerThrPheAlaGlyPhe 240
 Db 737 GGAATGGGCAATGGCGCTCTCATGGGACCAACCAACCTTCTCCACCTTTTCAGGATTC 796
 Qy 241 LeuLeuPheGluThrLys 246
 Db 797 CTGCTCTTTGAAGTAAAG 814

RESULT 5
 AAA95787
 ID AAA95787 standard; cDNA; 1760 BP.
 XX

AC AAA95787;

XX 28-FEB-2001 (first entry)

XX Human immune system molecule cDNA from Incyte clone 1890540.

XX Anti-inflammatory; keratolytic; anti-HIV; anti-allergic; antianaemic;
 KW antiarteriosclerotic; antiasthmatic; antidiabetic; nephrotropic; cancer;
 KW antigout; dermatological; antithyroid; virucide; hepatotropic; antibody;
 KW immunosuppressive; cytostatic; fungicide; protozoicide; antibacterial;
 KW gene therapy; diagnostic; immunological disorder; viral infection; ss;
 XX bacterial infection; fungal infection; parasitic infection; immunogen.

OS Homo sapiens.

XX WO200060080-A2.

XX 12-OCT-2000.

XX 04-APR-2000; 2000WO-US09072.

XX 05-APR-1999; 99US-0127852.

XX 05-MAY-1999; 99US-01132647.

XX (INCY-) INCYTE PHARM INC.

XX Yue H, Lal P, Tang YT, Baughn MR, Azimzai Y, Lu DAM;

PI WPI; 2000-665005/64.

XX P-PSDB; AAB15548.

XX New human immune system molecules 1-15 and polynucleotides encoding
 PT them useful for diagnosing, treating or preventing e.g. immunological
 PT disorders, infections, cell proliferative disorders, microbial
 PT infections

PS Claim 4; Page 93; 95pp; English.

XX This sequence represents the cDNA for a human immune system molecule
 CC (IMOL) isolated as clone 1890540 from the Incyte BLABRUT07 library.
 CC The human IMOLs (AAB15536-B15550) and their encoding polynucleotides
 CC (AAA95775-A95789), and compositions comprising them are useful for the
 CC diagnosis, treatment or prevention of immunological disorders,
 CC infections and cell proliferative disorders, including cancer. The IMOL
 CC may be used to treat or prevent disorders associated with decreased
 CC expression or activity of IMOL, such as immunological disorders
 CC (e.g. inflammation, actinic keratosis, AIDS, Addison's disease),
 CC haematopoietic cancer, infections caused by virus (e.g. adenovirus,
 CC parvovirus, coronavirus), bacteria (e.g. Staphylococcus, Streptococcus,
 CC Shigella), fungi (e.g. Aspergillus, Blastomycetes), parasites (e.g.
 CC Plasmodium, Trypanosoma, intestinal protozoa), cell proliferative
 CC disorders (e.g. actinic keratosis, arteriosclerosis, bursitis), and
 CC cancers (e.g. leukemia, melanoma, sarcoma). The peptides are also
 CC useful as immunogens for the development of antibodies that
 CC specifically recognize these peptides. The polynucleotides may be used
 CC to detect and quantify gene expression in biopsied tissues in which
 CC expression of IMOL may be correlated with the disease, as targets in a
 CC microarray, to detect differences in gene sequences among normal,
 CC carrier and affected individuals, and for screening libraries of
 CC compounds in drug screening techniques. Antibodies which specifically
 CC bind to IMOL may be used for the diagnosis of disorders characterized
 CC by expression of IMOL, or in assays to monitor patients being treated
 CC with IMOL or agonists, antagonists, or inhibitors of IMOL.

XX SQ Sequence 1760 BP; 505 A; 376 C; 395 G; 484 T; 0 other;

Alignment Scores:

Pred. No.: 2.02e-99 Length: 1760
 Score: 1367.00 Matches: 246
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 21 Gaps: 0

Gene encoding novel human secreted or membrane-associated protein #9.

XX	DE	
XX		
XX		
KW	Human; secreted protein; membrane-associated protein; hypertension;	
KW	inflammatory disorder; neurological disorder; haematopoietic disorder	
KW	skeletal developmental disorder; growth abnormality; autoimmune disorder	
KW	neurodegenerative disorder; nervous system disorder; bacterial infection	
KW	peripheral myelinopathy; viral infection; cancer; obesity; diabetes;	
XX	hypotension; sexual development disorder; blood disorder; gene; ds.	
OS	Homo sapiens.	

Qy	1	MetLeuTrpArgGlnLeuIleTyTrpGlnLeuLeuLeuLeuPheLeuProPheCys	20
Db	1	ATGCTTTGGAGCAGCTCATCTATTGGCAACTGCTGGCTTTGTTTTCTCCCTTTTTC	60
Qy	21	LeuCysGlnAspGluTyMetGlu-	28
Db	61	CTGTGTCAGATGAATACATGGAGGTGAGCGGAAGAACAATAAAGTGGTGGCAAGAATA	120
Qy	28	-----	28
Db	121	GTGCAAAAGCCACCAGCAGACTGGCCGTAGCGGCTCAGGAGGAGAAAGTCAGAGAGACGG	180
Qy	28	-----	28
Db	181	AGCCATCCTAAAGCTGGGACTGTGGATAATAACACACTTCTACAGACACCTAAATCCCTGAGA	240
Qy	28	-----	28

Db	241	CCAGATGAGCTACCGCACCCGAGG	TAGATGACCTAGCCAGCATCACACATTC	TCTGGGCG	300
Qy	29	---SerProGlnThrGlyGlyLeuProProAspCysSerLysCysCysHisGlyAspTyr			47
Db	301	CAGTCTCCACAAACCGGAGACTACCC	CACAGACTGCAGTAAGTGTCTCATGGAGACTAC		360
Qy	48	SerPheArgGlyTyrGlnGlyProProGlyProProGlyProProGlyIleProGlyAsn			67
Db	361	AGCTTTCGAGGCTACCAAGGCCCCCT	TGGGCCACCGGGCCCTCTGGCATTC	CAGGAAC	420
Qy	68	HisGlyAsnAsnGlyAsnAsnGlyAlaThrGlyHisGluGlyAlaLysGlyGluLysGly			87
Db	421	CATGGAACAATGGCAACATGAGGCCTGGT	CATGAAGGACCAAGGTGAGAAGGCG		480
Qy	88	AspLysGlyAspLeuGlyProArgGlyGluArgGlyGlnHisGlyProLysGlyGluLys			107
Db	481	GACAAAGTGCACCTGGGGCCTCAGGGG	AGCGGGGCGAGCATGGCCCAAGAGGAGAG		540
Qy	108	GlyTyrProGlyIleProProGluLeuGlnIleAlaPheMetAlaSerLeuAlaThrHis			127
Db	541	GGCTACCCGGGGATTCCACAGAACTTCAGATT	GCATTCATGGCTTCTCTGGCAACCCAC		600
Qy	128	PheSerAsnGlnAsnSerGlyIleIlePheSerSerValGluThrAsnIleGlyAsnPhe			147
Db	601	TTCAGCAATCAGAACAGTGGGATTATCTT	CAGCAGTGTTCAGACCACCAATTCGAACATTC		660
Qy	148	PheAspValMetThrGlyArgPheGlyAlaProValSerGlyValTyrPhePheThrPhe			167
Db	661	TTTGATGTCATGACTGGTAGATTTGGG	CCCCAGTATCAGGTGTGTATTTCTCACCTTC		720
Qy	168	SerMetMetLysHisGluAspValGluValTyrValTyrLeuMetHisAsnGlyAsn			187
Db	721	AGCATGATGAAGCATGAGGATGTTGAGGA	AGTGTATGTGTACCTTATGCACAATGGCAAC		780
Qy	188	ThrValPheSerMetTyrSerTyrGluMetLysGlyLysSerAspThrSerSerAsnHis			207
Db	781	ACAGTCTTTCAGCATGTACACCTATGAAT	GAGGGCAATTCAGATACATCCAGCAATCAT		840
Qy	208	AlaValLeuLysLeuAlaLysGlyAspGluValTrpLeuArgMetGlyAsnGlyAlaLeu			227
Db	841	CTGTGCTGAAGCTAGCCAAAGGGGATGAG	TTTGGCTCGGAATGGCAATGGCGCTCTC		900
Qy	228	HisGlyAspHisGlnArgPheSerThrPheAlaGlyPheLeuLeuPheGluThrLys			246
Db	901	CATGGGACCAACAACGCTCTCCACCTTTG	CAGGATTCCTGCTCTTTGAAACTAAG		957

RESULT 7	
AAC99776	
ID	AAC99776 standard; cDNA; 1035 BP.
XX	
XX	
AC	AAC99776;
XX	
XX	
DT	08-MAR-2001 (first entry)
XX	
XX	
DE	Skin cell cDNA, SEQ ID NO: 424.
XX	
XX	
KW	Rat; skin cell; cytostatic; antiinflammatory; anti-HIV;
KW	neotropic; neuroprotective; vulnerary; immunomodulatory; vaccine;
KW	keratinocyte growth stimulation; cancer; angiogenesis inhibition;
KW	inflammation; neurological disease; ss.
XX	
XX	
OS	Rattus sp.
XX	
PN	WO200069884-A2.
XX	
XX	
PD	23-NOV-2000.
XX	
XX	
PF	15-MAY-2000; 2000WO-NZ00075.
XX	
XX	
PR	14-MAY-1999; 99US-0312283.
XX	
PA	(GENE-) GENESIS RES & DEV CORP LTD.

XX Watson JD, Strachan L, Onrust R, Sleeman M, Kumble KD, Murison JG;
PI
XX
XX
XX WPI: 2001-007495/01.
DR P-PSDB; AAB55908.
XX
XX New isolated polynucleotide used in the identification of genetic
PT disorders and encoding polypeptides used for treating inflammatory
PT disease, cancer and neurological diseases -
XX
XX Claim 1; Page 317-318; 352pp; English.
PS

The present polynucleotide encodes a polypeptide which is expressed in mammalian skin cells. The polypeptide is useful for stimulating keratinocyte growth and motility, inhibiting the growth of cancer cells, modulating angiogenesis, inhibiting angiogenesis and vascularisation of tumours, modulating skin inflammation, stimulating the growth of epithelial cells, inhibiting the binding of human immunodeficiency virus (HIV)-1 to leukocytes, and treating inflammatory disease, cancer and neurological diseases. The polynucleotide can be used as a marker, in the identification of genetic disorders, and for the design of oligonucleotides for examining expression patterns.

Sequence 1035 BP: 255 A; 242 C; 298 G; 240 T; 0 other;

Alignment Scores:		
Pred. No.:	3.06e-95	Length: 1035
Score:	1311.00	Matches: 236
Percent Similarity:	97.15%	Conservative: 3
Best Local Similarity:	95.93%	Mismatches: 7
Query Match:	95.90%	Indels: 0
DB:	22	Gaps: 0

US-10-036-041-2 (1-246) x AAC99776 (1-1035)

Qy	1	MetLeuTrpArgGlnLeuIleTyrTrpGlnLeuLeuAlaLeuPhePheLeuProPheCys	20
Db	92	ATGCTCAGGAGGCAGCTCGTCTGGTGGCACCTGCTGGCTTTGCTTTCTCCATTTTGC	151
Qy	21	LeuCysGlnAspGluTyrMetGluSerProGlnThrGlyGlyLeuProProAspCysSer	40
Db	152	CTGTGTCAAGATGAATACATGGAGTCTCCAAAGCTGGAGGACTGCCCCACAGATGCAGC	211
Qy	41	LysCysCysHisGlyAspTyrSerPheArgGlyTyrGlnGlyProProGlyProProGly	60
Db	212	AAGTGTGCCATCGAGATTATGATTCCGTGGTTACCAAGGGCCCCCTGGACCCCCAGGT	271
Qy	61	ProProGlyIleProGlyAsnHisGlyAsnAsnGlyAsnAsnGlyAlaThrGlyHisGlu	80
Db	272	CCTCCTGGCATTCAGAGAAACCATGGAACAATGAAATAACGGAGGCCACTGGCCACGAA	331
Qy	81	GlyAlaLysGlyGluTysGlyAspTysGlyAspLeuGlyProArgGlyGluArgGlyGln	100
Db	332	GGGCCCAAGGCTGAGAAAGGAGACAAAGCGACCTGGGGCCCTCGAGGGGGAACGGGGGCAG	391
Qy	101	HisGlyProLysGlyGluLysGlyTyrProGlyIleProProGluLeuGlnIleAlaPhe	120
Db	392	CATGGCCCCAAAGGATAGAAAGGATACCCAGGGGTGCCACAGAGCTCCAGATTGGCTTC	451
Qy	121	MetAlaSerLeuAlaThrHisPheSerAsnGlnAsnSerGlyIleIlePheSerSerVal	140
Db	452	ATGGCTTCTCTACGGACTCACTTCAGCAATCAGACAGTGGCATTTACTTCAGCAGTGT	511
Qy	141	GluThrAsnIleGlyAsnPhePheAspValMetThrGlyArgPheGlyAlaProValSer	160
Db	512	GAGACCAACATTGGAACCTCTTCGATGTCATGACTGGTAGATTGGGGCCCCCGTATCA	571
Qy	161	GlyValTyrPhePheThrPheSerMetMetLysHisGluAspValGluGluValTyrVal	180
Db	572	GGCGTGTATTCTTCACCTTCAGCATGATGAAGCATGAGGACGTGGAGGAAGTCTATGTG	631
Qy	181	TyrLeuMetHisAsnGlyAsnThrValPheSerMetTyrSerTyrGluMetLysGlyLys	200

Db 632 TACCTTATGCACATGGTTACACCGGTCTTCAGCATGTACAGCTATGAAACAAAGGAAAA 691

Qy 201 SerAspThrSerSerAsnHisAlaValLeuLysLeuAlaLysGlyAspGluValTrpLeu 220
|||||
Db 692 TCAGATACATCCAGCAACACATGCAAGTGTGAAGTTGGCCAAAGAGATGAAGTCTGGCTA 751

Qy 221 ArgMetGlyAsnGlyAlaLeuHisGlyAspHisGlnArgPheSerThrPheAlaGlyPhe 240
|||||
Db 752 AGAATGGCAACAGGTGGCTCCATGGGGACCAACAGCGCTTCTTACCTTCGCGAGGCTTT 811

Qy 241 LeuLeuPheGluThrLys 246
|||||

Db 812 CTGCTTTTGAACATAAG 829

RESULT 8

ABL34928
ID ABL34928 standard; cDNA; 1035 BP.

XX

AC ABL34928;

XX

XX 04-APR-2002 (first entry)

DE Rat cDNA isolated from skin cells SEQ ID NO: 424.

XX

XX Human; rat; mouse; skin cell; skin wound; cancer; growth defect;
KW developmental defect; inflammatory disease; dermatological; vulnerary;
KW immunomodulator; anti-inflammatory; cytostatic; neuroprotective; gene;
KW ss.

XX

OS Rattus sp.

XX

PN W0200190357-AL.

XX

PD 29-NOV-2001.

XX

XX 24-MAY-2001; 2001WO-NZ00099.

XX

XX 24-MAY-2000; 2000US-206650P.

PR 25-JUL-2000; 2000US-221232P.

XX

PA (GENE-) GENESIS RES & DEV CORP LTD.

XX

PI Watson JD, Strachan L, Sleeman M, Onrust R, Murison JG, Kumble KD;

XX

DR WPI; 2002-122020/16.

XX

XX New polynucleotides and polypeptides encoded by the polynucleotides
PT isolated from skin cells, useful for treating skin wounds, cancers,
PT growth and developmental defects, inflammatory diseases, or for
PT modulating immune responses

XX

PS Claim 1; Page 262; 466pp; English.

XX

CC The present invention provides the protein and coding sequences of cDNAs
CC isolated from human, murine and rat skin cell libraries. The sequences
CC can be used in the development of therapeutic agents useful in the
CC treatment of skin diseases, including skin wounds, cancer, growth
CC defects, developmental defects and inflammatory diseases. The proteins
CC have important roles in the induction of hair growth, cell proliferation
CC and cell-cell interaction, in maintaining tissue integrity, in wound
CC healing and in modulating immune responses. The present sequence is a
CC cDNA of the invention.

XX

SQ Sequence 1035 BP; 255 A; 242 C; 298 G; 240 T; 0 other;

Alignment Scores:

Pred. No.: 3 06e-95 Length: 1035

Score: 1311.00 Matches: 236

Percent Similarity: 97.15% Conservative: 3

Best Local Similarity: 95.93% Mismatches: 7

Query Match: 95.90% Indels: 0

DB: 24 Gaps: 0

US-10-036-041-2 (1-246) x ABL34928 (1-1035)

Qy 1 MetLeuTrpArgGlnLeuLeuIleTyrTrpGlnLeuLeuAlaLeuPhePheLeuProPheCys 20
|||||
Db 92 ATGCTCAGGAGGAGCAGCTCGTCTGGTGGCACCTGCTGTGGCTTTTCTCTCCCAATTTGC 151

Qy 21 LeuCysGlnAspGluTyrMetGluSerProGlnThrGlyGlyLeuProAspCysSer 40
|||||

Db 152 CTGTGTCAAGATGAATACATGAGTCTCCACAAGCTGGAGGACTGCCCCACAGCTGCAGC 211

Qy 41 LysCysCysHisGlyAspTyrSerPheArgGlyTyrGlnGlyProGlyProGlyProGly 60
|||||

Db 212 AAGTGTTCATGGAGATTATGATTCGCTGGTACCAAGGCCCTTGGACCCCGAGT 271

Qy 61 ProProGlyIleProGlyAsnHisGlyAsnAsnGlyAsnAsnGlyAlaThrGlyHisGlu 80
|||||

Db 272 CCTCTGGCATTCAGGAACCATGGAACAATGGAATAACGGAGCCACTGGCCACGAA 331

Qy 81 GlyAlaLysGlyGluLysGlyAspLysGlyAspLeuGlyProArgGlyGluArgGlyGln 100
|||||

Db 332 GGGCCCAAGGTGAGAAAGAGACAAAGCGACCTGGGGCTCGAGGGGACGGGGGAG 391

Qy 101 HisGlyProLysGlyGluLysGlyTyrProGlyIleProGlyLeuGlnIleAlaPhe 120
|||||

Db 392 CATGCCCCCAAGATAGAGGATACCCAGGGTGGCCACAGAGCTGCAGATTGCGTTC 451

Qy 121 MetAlaSerLeuAlaThrHisPheSerAsnGlnAsnSerGlyIleIlePheSerSerVal 140
|||||

Db 452 ATGGCTTCTCTAGCGACTCACTTCAGCAATCAGAACAGCTGGCATTTATCTTCAGCAGTGT 511

Qy 141 GluThrAsnIleGlyAsnPhePheAspValMetThrGlyArgPheGlyAlaProValSer 160
|||||

Db 512 GAGACCAACATTTGAAACTTCTTCATGTCATGACTGTAGATTGGGGCCCCCGTATCA 571

Qy 161 GlyValTyrPhePheThrPheSerMetMetLysHisGluAspValGluValTyrVal 180
|||||

Db 572 GGCCTGTATTCTTCACCTTCAGCATGATGAGCATGAGGAGGAGGAGGAGTGTATGTG 631

Qy 181 TyrLeuMetHisAsnGlyAsnThrValPheSerMetTyrSerTyrGluMetLysGlyLys 200
|||||

Db 632 TACCTTATGCACAAATGTTAAACACGCTGTTCAGCATGTACAGCTATGAAACAAAGGAAAA 691

Qy 201 SerAspThrSerSerAsnHisAlaValLeuLysLeuAlaLysGlyAspGluValTrpLeu 220
|||||

Db 692 TCAGATACATCCAGCAACCATGCTGCTGAAGTTGGCCAAAGAGATGAAGTCTGGCTA 751

Qy 221 ArgMetGlyAsnGlyAlaLeuHisGlyAspHisGlnArgPheSerThrPheAlaGlyPhe 240
|||||

Db 752 AGAATGGCAACAGGTGGCTCCATGGGGACCAACAGCGCTTCTTACCTTCGCGAGGCTTT 811

Qy 241 LeuLeuPheGluThrLys 246
|||||

Db 812 CTGCTTTTGAACATAAG 829

RESULT 9

AAC64064

ID AAC64064 standard; DNA; 1117 BP.

XX

XX AAC64064;

XX

DT 19-FEB-2001 (first entry)

XX

DE Mouse zacr2 DNA, SEQ ID NO:11.

XX

XX Mouse zacr2; adipocyte complement related protein homologue;
KW ACRP30; C1q domain; collagen-like domain; energy balance modulation;
KW cellular metabolism; metabolic disorder; obesity; anorexia;
KW antimicrobial agent; infection; platelet aggregation inhibition;
KW adhesion; activation; vascular injury; antibacterial; antiviral;
XX human zacr3 homologue; ds.

OS Mus musculus.

780 TCAGATACATCCAGCAACCATGCAGTGCCTGAAGTTGGCCAAAGGAGATGAAGTCTGGCTA 839

221r AqWeIClyAsoclyAlaLeuHisGlyAspHisGlnArGpHeSerThrPheAlaGlyPhe 240

840 AGAATGGGCAACGGTCCCTCCATGGGGACCAACGAGCGCTTCTCTACCTTCGCAGGCTTT 899

241 LeuLeuPheGluThrLys 246

900 CTGCTTTTGAACCTAAG 917

RESULT 11

AAZ61730

ID AAZ61730 standard; cDNA; 1123 BP.

XX

XX AAZ61730;

XX

27-MAR-2000 (first entry)

XX

cDNA encoding rat skin cell secreted protein, SEQ ID NO:203.

XX

Skin; dermal papilla; keratinocyte; neonatal foreskin fibroblast;

KW embryonic skin cell; keratinocyte stem cell; transit amplifying cell;

KW secreted; transmembrane; inflammation; cancer; neurological disease;

KW angiogenesis; tumour vascularisation; growth disorder;

KW developmental disorder; skin wound; hair follicle disorder;

KW anti-inflammatory; cytostatic; neuroprotective; vulnery; ss.

XX

Rattus sp.

OS

XX WO9955865-A1.

XX

04-NOV-1999.

XX

29-APR-1999; 99WO-NZ00051.

XX

29-APR-1998; 98US-0069726.

PR

09-NOV-1998; 98US-0188930.

XX

(GENE-) GENESIS RES & DEV CORP LTD.

PA

XX

Strachan L, Sleeman M, Watson JD, Onrust R, Kumble A, Murison JG;

PI

XX WPI: 2000-072177/06.

DR

XX P-PSDB; AAY76025.

DR

XX

Novel polynucleotides useful for the treatment of various conditions

PT

XX including wounds and cancer

XX

XX

Claim 1; Page 137; 235pp; English.

XX

The invention relates to novel nucleic acid sequences derived from rat

CC dermal papilla, human keratinocytes and neonatal foreskin fibroblasts,

CC and mouse embryonic skin, keratinocyte stem cells and transit amplifying

CC cells. Polypeptides of the invention may be used to treat inflammation,

CC cancer and neurological diseases. The proteins may be used to stimulate

CC the growth and motility of keratinocytes, to inhibit the growth of

CC cancer cells, to modulate angiogenesis and tumour vascularisation, to

CC modulate skin inflammation, to modulate epithelial cell growth and to

CC inhibit binding of HIV-1 to leukocytes. The invention may also be used

CC to treat growth and developmental defects, skin wounds and hair follicle

CC disorders. Sequences AAZ61606-261832 represent cDNA sequences derived

CC from several mouse, rat or human skin cell types. Sequences

CC AAZ61606-261649, AAZ61725-261765, AAZ61802-261811 and AAZ61826 encode

CC proteins with an N-terminal signal sequence, indicating that the proteins

CC are secreted. Sequences AAZ61650-261668, AAZ61766-261780, AAZ61812-261817

CC and AAZ61827-261829 encode proteins with one or more putative

CC transmembrane domains.

XX

XX

Sequence 1123 BP; 277 A; 266 C; 321 G; 258 T; 1 other;

SQ

Alignment Scores:

Pred. No.: 3.36e-95 Length: 1123

Score: 1311.00 Matches: 236
Percent Similarity: 97.15% Conservative: 3
Best Local Similarity: 95.93% Mismatches: 7
Query Match: 95.90% Indels: 0
DB: 21 Gaps: 0

US-10-036-041-2 (1-246) x AAC261730 (1-1123)

```
QY 1 MetLeuTrpArgGlnLeuIleTyrTrpGlnLeuLeuAlaLeuPheLeuProPheCys 20
DB 180 ATGCTCAGGAGGAGCTGCTGGTGGACCTGCTGGCTTTGCTTTCTCCATTTTGC 239
QY 21 LeuCysGlnAspGluTyrMetGluSerProGlnThrGlyLeuProProAspCysSer 40
DB 240 CTGTGTCAGATGAATACATGAGTCTCCACAAGCTGGAGGAGTGCCTCCAGACTGCAGC 299
QY 41 LysCysCysHisGlyAspTyrSerPheArgGlyTyrGlnGlyProProGlyProGly 60
DB 300 AAGTGTTCATGGAGGATGATGATTCGTTTACCAAGGGCCCTGGACCCAGGT 359
QY 61 ProProGlyIleProGlyAsnHisGlyAsnAsnGlyAsnGlyAlaThrGlyHisGlu 80
DB 360 CCTCTGGCATTCAGGAACCATGGAACAATGGAATACGGACCACTGGCCACGAA 419
QY 81 GlyAlaLysGlyGluLysGlyAspLysGlyAspLeuGlyProArgGlyGluArgGlyGln 100
DB 420 GGGCCCAAGGTCAGAAAGGACAAAGCGACCTGGGCTCGAGGGGACGGGGCAG 479
QY 101 HisGlyProLysGlyGluLysGlyTyrProGlyIleProProGluLeuGlnIleAlaPhe 120
DB 480 CATGGCCCCAAAGGATAGAGGATACCCAGGGGTGCCACAGAGCTGCAGATTGGCTTC 539
QY 121 MetAlaSerLeuAlaThrHisPheSerAsnGlnAsnSerGlyIleIlePheSerSerVal 140
DB 540 ATGGCTTCTCTAGCGACTCCTACATTCAGCAATCAGAACAGTGGCATTTCTTCAGCAGTGT 599
QY 141 GluThrAsnIleGlyAsnPhePheAspValMetThrGlyArgPheGlyAlaProValSer 160
DB 600 GAGACCAACATTGGAAACCTCTTCGATGTCATGACTGTGTAGATTGGGGCCCCGCTATCA 659
QY 161 GlyValTyrPhePheThrPheSerMetMetLysHisGluAspValGluGluValTyrVal 180
DB 660 GCGGTGATTTCTTCACTTCCAGCATGATGATGAGCATGAGGACGCTGGAGGAAGTGTATGT 719
QY 181 TyrLeuMetHisAsnGlyAsnThrValPheSerMetTyrSerTyrGluMetLysGlyLys 200
DB 720 TACCTTATGCACAAATGGTAAACAGGTTTACAGCATGATGAGCTATGAAACAAAGGGA 779
QY 201 SerAspThrSerSerAsnHisAlaValLeuLysLeuAlaLysGlyAspGluValTyrLeu 220
DB 780 TCAGATACATCCAGCAACCATGCTGCTGAAGTTGGCCAAAGGAGATGAAGTCTGGCTA 839
QY 221 ArgMetGlyAsnGlyAlaLeuHisGlyAspHisGlnArgPheSerThrPheAlaGlyPhe 240
DB 840 AGAATGGCAACGGTGCCTCCATGGGGACCAACAGCGCTTCTCTACCTTCGCAGGCTTT 899
QY 241 LeuLeuPheGluThrLys 246
DB 900 CTGCTTTTGAACATAAG 917
```

RESULT 12

AAC99566
ID AAC99566 standard: cDNA; 1123 BP.

XX AC AAC99566;

XX AC AAC99566;

DT 08-MAR-2001 (first entry)

XX DE Skin cell cDNA, SEQ ID NO: 28.

XX KW Rat; skin cell; cytostatic; antiinflammatory; anti-HIV;

XX KW neutrophic; neuroprotective; vulnary; immunomodulatory; vaccine;

XX KW keratinocyte growth stimulation; cancer; angiogenesis inhibition;

KW inflammation; neurological disease; ss.

XX Rattus sp.

XX PN WO200069884-A2.

XX PD 23-NOV-2000.

XX PF 15-MAY-2000: 2000WO-NZ00075.

XX PR 14-MAY-1999; 99US-0312283.

XX PA (GENE-) GENESIS RES & DEV CORP LTD.

XX PI Watson JD, Strachan L, Onrust R, Sleeman M, Kumble-KD, Murison JG;

XX DR WPI; 2001-007495/01.

XX DR P-PSDB; AAB55908.

XX PT New isolated polynucleotide used in the identification of genetic disorders and encoding polypeptides used for treating inflammatory disease, cancer and neurological diseases

XX PS Claim 1; Page 87; 352pp; English.

XX CC The present polynucleotide encodes a polypeptide which is expressed in mammalian skin cells. The polypeptide is useful for stimulating keratinocyte growth and motility, inhibiting the growth of cancer cells, modulating angiogenesis, inhibiting angiogenesis and vascularisation of tumours, modulating skin inflammation, stimulating the growth of epithelial cells, inhibiting the binding of human immunodeficiency virus (HIV)-1 to leukocytes, and treating inflammatory disease, cancer and neurological diseases. The polynucleotide can be used as a marker, in the identification of genetic disorders, and for the design of oligonucleotides for examining expression patterns.

XX SQ Sequence 1123 BP; 277 A; 266 C; 321 G; 258 T; 1 other;

Alignment Scores:

Pred. No.: 3,36e-95 Length: 1123
Score: 1311.00 Matches: 236
Percent Similarity: 97.15% Conservative: 3
Best Local Similarity: 95.93% Mismatches: 7
Query Match: 95.90% Indels: 0
DB: 21 Gaps: 0

US-10-036-041-2 (1-246) x AAC99566 (1-1123)

```
QY 1 MetLeuTrpArgGlnLeuIleTyrTrpGlnLeuLeuAlaLeuPheLeuProPheCys 20
DB 180 ATGCTCAGGAGGAGCTGCTGGTGGACCTGCTGGCTTTGCTTTCTCCATTTTGC 239
```

```
QY 21 LeuCysGlnAspGluTyrMetGluSerProGlnThrGlyLeuProProAspCysSer 40
DB 240 CTGTGTCAGATGAATACATGAGTCTCCACAAGCTGGAGGAGTGCCTCCAGACTGCAGC 299
```

```
QY 41 LysCysCysHisGlyAspTyrSerPheArgGlyTyrGlnGlyProProGlyProGly 60
DB 300 AAGTGTTCATGGAGGATGATGATTCGTTTACCAAGGGCCCTGGACCCAGGT 359
```

```
QY 61 ProProGlyIleProGlyAsnHisGlyAsnAsnGlyAsnGlyAlaThrGlyHisGlu 80
DB 360 CCTCTGGCATTCAGGAACCATGGAACAATGGAATACGGACCACTGGCCACGAA 419
```

```
QY 81 GlyAlaLysGlyGluLysGlyAspLysGlyAspLeuGlyProArgGlyGluArgGlyGln 100
DB 420 GGGCCCAAGGTCAGAAAGGACAAAGCGACCTGGGGCTTCGAGGGGACGGGGCAG 479
```

```
QY 101 HisGlyProLysGlyGluLysGlyTyrProGlyIleProProGluLeuGlnIleAlaPhe 120
DB 480 CATGGCCCCAAAGGATAGAGGATACCCAGGGGTGCCACAGAGCTGCAGATTGGCTTC 539
```

```
QY 121 MetAlaSerLeuAlaThrHisPheSerAsnGlnAsnSerGlyIleIlePheSerSerVal 140
```

|||||
540 ATGGCTTCTCTACGGACTCACTTCAGCAATCAGACAGTGGCATTATCTTCACGAGTGT 599
QY 141 GluThrAsnIleGlyAsnPhaPheAspValMetThrGlyArgPheGlyAlaProValSer 160
Db 600 GAGACCAACATTCGAACTTCTTCGATGTCTGACTGGTAGATTGGGGCCCGGTATCA 659
QY 161 GlyValTyrPhePheThrPheSerMetMetLysHisGluAspValGluGluValTyrVal 180
Db 660 GCGGTGTATTTCTACCTTCACCATCATGATGAGCATGAGGACGTGGAGGAAGTGTATGTG 719
QY 181 TyrLeuMetHisAsnGlyAsnThrValPheSerMetTyrSerTyrGluMetLysGlyLys 200
Db 720 TACCTTATGCACAACTGGTACAGCGGTTCAGCATGTACAGCTATGAAACAAAGGAAAA 779
QY 201 SerAspThrSerSerAsnHisAlaValLeuLysLeuAlaLysGlyAspGluValTyrLeu 220
Db 780 TCAGATACATCCAGCAACCATGCTGCTGAAGTTGGCCAAAGGAGATGAAGTCTGGCTA 839
QY 221 ArgMetGlyAsnGlyAlaLeuHisGlyAspHisGlnArgPheSerThrPheAlaGlyPhe 240
Db 840 AGAATGGGCAACGGTCCCTCCATGGGAGACCAACGAGCTTCTTACCTTCGAGGCTTT 899
QY 241 LeuLeuPheGluThrLys 246
Db 900 CTGCTTTTGAACACTAAG 917
RESULT 13
AAC99663
ID AAC99663 standard; cDNA; 1123 BP.
XX
AC AAC99663;
XX
DT 08-MAR-2001 (first entry)
XX
DE Skin cell cDNA, SEQ ID NO: 203.
XX
KW Rat; skin cell; cytostatic; antiinflammatory; anti-HIV;
KW neutropic; neuroprotective; vulnary; immunomodulatory; vaccine;
KW keratinocyte growth stimulation; cancer; angiogenesis inhibition;
KW inflammation; neurological disease; ss.
XX
OS Rattus sp.
XX
PN WO200069884-A2.
XX
PD 23-NOV-2000.
XX
PF 15-MAY-2000; 2000WO-NZ00075.
XX
PR 14-MAY-1999; 99US-0312283.
XX
PA (GENE-) GENESIS RES & DEV CORP LTD.
XX
PI Watson JD, Strachan L, Onrust R, Sleeman M, Kumble KD, Murison JG;
XX
DR WPI; 2001-007495/01.
DR P-PSDB; AAB55958.
XX
PT New isolated polynucleotide used in the identification of genetic
PT disorders and encoding polypeptides used for treating inflammatory
PT disease, cancer and neurological diseases -
XX
PS Claim 1; Page 176-177; 352pp; English.
XX
CC The present polynucleotide encodes a polypeptide which is expressed in
CC mammalian skin cells. The polypeptide is useful for stimulating
CC keratinocyte growth and motility, inhibiting the growth of cancer cells,
CC modulating angiogenesis, inhibiting angiogenesis and vascularisation of
CC tumours, modulating skin inflammation, stimulating the growth of
CC epithelial cells, inhibiting the binding of human immunodeficiency virus
CC (HIV)-1 to leukocytes, and treating inflammatory disease, cancer and
CC neurological diseases. The polynucleotide can be used as a marker, in

CC the identification of genetic disorders, and for the design of
CC oligonucleotides for examining expression patterns.
XX
SQ Sequence 1123 BP; 277 A; 266 C; 321 G; 258 T; 1 other;
Alignment Scores:
Pred. No.: 3,36e-95 Length: 1123
Score: 1311.00 Matches: 236
Percent Similarity: 97.15% Conservative: 3
Best Local Similarity: 95.93% Mismatches: 7
Query Match: 95.90% Indels: 0
Db: 22 Gaps: 0
US-10-036-041-2 (1-246) x AAC99663 (1-1123)
QY 1 MetLeuTyrArgGlnLeuIleTyrTrpGlnLeuLeuAlaLeuPheLeuProPheCys 20
Db 180 ATCTCAGGAGGAGCTGCTGCTGGTGGCAGCTGCTGGCTTTGCTTCCCTCCATTTGC 239
QY 21 LeuCySlnAspGluTyrMetGluSerProGlnThrGlyGlyLeuProProAspCysSer 40
Db 240 CTGTGTCAAGATGAATACATGAGTCTCCACAAGCTGGAGACTGCCCCAGACTGCAGC 299
QY 41 LysCysCysHisGlyAspTyrSerPheArgGlyTyrGlnGlyProGlyProGly 60
Db 300 AAGTGTGGCATGGAGATTATGATTCCGTGGTTACCAAGGGCCCCCTGGACCCCGAGGT 359
QY 61 ProProGlyIleProGlyAsnHisGlyAsnAsnGlyAsnAsnGlyAlaThrGlyHisGlu 80
Db 360 CCTCTGGCATTCAGGAACCATGGAACAATGGAATTAACGAGCCACTGCCACGAA 419
QY 81 GlyAlaLysGlyGluLysGlyAspLysGlyAspLeuGlyProArgGlyGluArgGlyGln 100
Db 420 GGGGCCAAGGGTGAGAAAGGAGACAAAGGCGACTGGGGCTCAGAGGGAACGGGCGAG 479
QY 101 HisGlyProLysGlyGluLysGlyTyrProGlyIleProGlyLeuGlnIleAlaPhe 120
Db 480 CATGGCCCCAAAGGATAGAAAGGATACCCAGGGGTGCCACGAGCTGCAGATTGGGTTT 539
QY 121 MetAlaSerLeuAlaThrHisPheSerAsnGlnAsnSerGlyIleIlePheSerSerVal 140
Db 540 ATGGCTTCTCTACGACTCCTCCTCAGCAATCAGACAGTGGCATTTCTTCACGAGTGT 599
QY 141 GluThrAsnIleGlyAsnPhaPheAspValMetThrGlyArgPheGlyAlaProValSer 160
Db 600 GAGACCAACATTCGAACTTCTTCGATGTCTGACTGGTAGATTGGGGCCCGGTATCA 659
QY 161 GlyValTyrPhePheThrPheSerMetMetLysHisGluAspValGluGluValTyrVal 180
Db 660 GCGGTGTATTTCTACCTTCACCATCATGAGCATGAGGACGTGGAGGAAGTGTATGTG 719
QY 181 TyrLeuMetHisAsnGlyAsnThrValPheSerMetTyrSerTyrGluMetLysGlyLys 200
Db 720 TACCTTATGCACAACTGGTAAACAGCGGTCTTCAGCATGTACAGCTATGAAACAAAGGAAAA 779
QY 201 SerAspThrSerSerAsnHisAlaValLeuLysLeuAlaLysGlyAspGluValTyrLeu 220
Db 780 TCAGATACATCCAGCAACCATGCTGCTGAAGTTGGCCAAAGGAGATGAAGTCTGCCTA 839
QY 221 ArgMetGlyAsnGlyAlaLeuHisGlyAspHisGlnArgPheSerThrPheAlaGlyPhe 240
Db 840 AGAATGGGCAACGGTCCCTCCATGGGAGACCAACGAGCTTCTTACCTTCGAGGCTTT 899
QY 241 LeuLeuPheGluThrLys 246
Db 900 CTGCTTTTGAACACTAAG 917
RESULT 14
ABL34718
ID ABL34718 standard; cDNA; 1123 BP.
XX
AC ABL34718;
XX

CC haematopoiesis, to modulate tissue growth activity (e.g. for the
 CC treatment of Parkinson's disease, Huntington's disease and Alzheimer's
 CC disease), to modulate activin and inhibin activity (e.g. for controlling
 CC fertility), to modulate chemotactic and chemokinetic activity, to
 CC modulate haemostatic and thrombolytic activity, to modulate receptor
 CC ligand activity, to modulate inflammation and to inhibit tumour growth.
 XX
 SQ Sequence 1927 BP; 550 A; 416 C; 452 G; 509 T; 0 other;

Alignment Scores: 2,22e-93 Length: 1927
 Pred. No.: 1291.50 Matches: 245
 Score: 1291.50
 Percent Similarity: 76.80% Conservative: 0
 Best Local Similarity: 76.80% Mismatches: 1
 Query Match: 94.48% Indels: 74
 DB: 22 Gaps: 1

US-10-036-041-2 (1-246) x AAD12584 (1-1927)

QY 1 MetLeuTrpArgGlnLeuIleTyrTrpGlnLeuAlaLeuPhePheLeuPropheCys 20
 DB 89 ATGCTTTGGAGGAGCTCATCTATTGGCAACTGCTGGCTTTGTTTCTCCCTTTTGC 148
 QY 21 LeuCysGlnAspGluTyrMetGlu----- 28
 DB 149 CTGTGTCAGATGAATACATGGAGGTGAGCGGAAGAACTAATAAGTGTGTGCAAGAATA 208
 QY 28 ----- 28
 DB 209 GTGCAAGCCAGCAGACAGCTGGCCGTAGCGGTCCAGGAGGAGAAAGTGAGAGCGG 268
 QY 28 ----- 28
 DB 269 AGCCATCTAAACTGGGACTGTGGATAATAACACTTCTACAGACCTAAATCCCTGAGA 328
 QY 28 ----- 28
 DB 329 CCAGATGAGCTACGCCACCCGAGTAGATGACCTAGCTAGCCAGATCACCACATTTCTGGGC 388
 QY 29 ---SerProGlnThrGlyGlyLeuProAspCysSerLysCysHisGlyAspTyr 47
 DB 389 CAGTCTCCAAACCGGAGGACTACCCCGAGACTGCAAGTGAAGTGTGTGATGAGAGCTAC 448
 QY 48 SerPheArgGlyTyrGlnGlyProGlyProGlyProGlyProGlyProGlyProGlyAsn 67
 DB 449 AGCTTTCCGAGGTACCAAGGCCCCCTGGGCCACCCGGCCCTCTCGCATTCAGGAAC 508
 QY 68 HisGlyAsnAsnGlyAsnAsnGlyAlaThrGlyHisGlyAlaLysGlyGlyGly 87
 DB 509 CATGGAACAATGGCAACAATGGAGCCACTGGTTCATGAAGGAGGCCAAGGTGAGAAGGC 568
 QY 88 AspLysGlyAspLeuGlyProArgGlyGlyGlyGlyGlyGlyGlyGlyGlyGly 107
 DB 569 GACAAAGTACCTGGGGCCCTCGAGGGGAGCGGGGGGAGCATGGCCCAAGGAGAGAAG 628
 QY 108 GlyTyrProGlyIleProProGlyLeuGlnIleAlaPheMetAlaSerLeuAlaThrHis 127
 DB 629 GGCTACCCGGGATTCCACCAAGAACTTCAGATTCATTGCTTCTCTGGCAACCCAC 688
 QY 128 PheSerAsnGlnAsnSerGlyIleIlePheSerSerValGluThrAsnIleGlyAsnPhe 147
 DB 689 TTCAGCAATCAGACAGCTGGGATTATCTTCAGCAGTCTTGAGACCAACATTTGGAACATTC 748
 QY 148 PheAspValMetThrGlyArgPheGlyAlaProValSerGlyValTyrPhePheThrPhe 167
 DB 749 TT-GATGTCATGACTGGTATTTGGGGCCCCAGATATCAGGTGTGTATTTCTTCCACCTTC 807
 QY 168 SerMetMetLysHisGluAspValGluGluValTyrValTyrLeuMetHisAsnGlyAsn 187
 DB 808 AGCATGATGAAGCATGAGGATGTTGAGGAAGTGTATCTGTACCTTATGCAACATGGCAAC 867
 QY 188 ThrValPheSerMetTyrSerTyrGluMetLysGlyLysSerAspThrSerSerAsnHis 207

DB 868 ACAGTCTTCAGCATGTACAGCTATGAATGAAGGGCAAAATCAGATACATCCAGCAATCAT 927
 QY 208 AlaValLeuLysLeuAlaLysGlyAspGluValTrpLeuArgMetGlyAsnGlyAlaLeu 227
 DB 928 CTGTGCTGAAGTAGAGCAAGGGAGTAGAGTTGGCTGGATGGCATGGCGCTCTC 987
 QY 228 HisGlyAspHisGlnArgPheSerThrPheAlaGlyRheLeuLeuPheGluThrLys 246
 DB 988 CATGGGAGCACCAACGCTTCTCCACCTTTGCAGGATTCCTGCTTTTGAACATAAG 1044

RESULT 17
 AAF94076
 ID AAF94076 standard; DNA; 810 BP.
 XX
 AC AAF94076:
 DT 23-MAY-2001 (first entry)
 XX
 DE Primer specific for DNA encoding secretory/membrane protein SEQ ID 510.
 KW Human; secretory protein; membrane protein; vaccine; gene therapy;
 KW rheumatoid arthritis; diabetes; PCR primer; ss.
 XX Synthetic.
 XX EP1067182-A2.
 XX 10-JAN-2001.
 XX 07-JUL-2000; 2000EP-0114090.
 XX 08-JUL-1999; 99JP-0194179.
 PR 11-JAN-2000; 2000JP-0118775.
 PR 02-MAY-2000; 2000JP-0183766.
 XX (HELI-) HELIX RES INST.
 PA Ota T, Isogai T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;
 WPI; 2001-093989/11.
 XX Nucleic acids encoding secretory proteins/membrane proteins, useful in
 PT gene therapy or as candidate target molecules in drug development -
 PS Claim 4; SEQ ID 510; 609pp + CD ROM; English.
 XX This invention relates to nucleic acid sequences AAF93744 - AAF93916
 CC which encode human secretory or membrane proteins represented by
 CC AAB88419. Included in the invention are primers
 CC AAF93917 - AAF94295 and AAF62232 - AAF62235 which are used to isolate the
 CC cDNA sequences of the invention. The invention also includes methods for
 CC the production of antibodies directed against the proteins, and cDNA
 CC sequences, which can be used in vaccines. The polynucleotide sequences
 CC can be used in gene therapy. The polynucleotide sequences and the
 CC proteins they encode may be used in the prevention, treatment and
 CC diagnosis of diseases associated with inappropriate secretory
 CC protein/membrane protein expression. The nucleic acids and complementary
 CC sequences may also be used as DNA probes in diagnostic assays
 CC (e.g. polymerase chain reactions (PCR)) to detect and quantitate the
 CC presence of similar nucleic acid sequences in samples. They may also be
 CC used to study the expression and function of secretory proteins/membrane
 CC polypeptides and their role in metabolism. The polypeptides may be used
 CC as antigens in the production of antibodies against them and in assays to
 CC identify modulators (agonists and antagonists) of expression and
 CC activity. The antibodies and antagonists may also be used as therapeutic
 CC agents to down regulate expression and activity. The antibodies may also
 CC be used as diagnostic agents for detecting the presence of the
 CC polypeptides in samples (e.g. by enzyme linked immunosorbent assay
 CC (ELISA)). Examples of diseases which may be treated include rheumatoid
 CC arthritis and diabetes.
 XX Sequence 810 BP; 200 A; 201 C; 218 G; 188 T; 3 other;

[illegible]

20

301 AGCTTTCGAGGCTACCAAGGCCCCCTGGGCCACGGGCCCTCCTGGCATTCACGGAAC 360

QY 68 HisGlyAsnAsnGlyAsnGlyAlaThrGlyHisGluGlyAlaLysGlyGluLysGly 87
 DB 361 CATGGAAACATGGCAACATGGAGCCACTGGTCATGAGGAGCCAAAGGTGAGAGGGC 420
 QY 88 AspLysGlyAspLeuGlyProArgGlyGluArgGlyGlnHisGlyProLysGlyGluLys 107
 DB 421 GACAAAGGTGACCTGGGGCTCGAGGGGAGCGGGCGAGCATGCCGCCAAGAGAGAAG 480
 QY 108 GlyTyrProGlyIleProGluLeuGlnIleAlaPheMetAlaSerIleAlaThrHis 127
 DB 481 GGTACCCGGGATCCACAGAACTTCAGATTGCATTATGCTTCGGCAACCCAC 540
 QY 128 PheSerAsnGlnAsnSerGlyIleIlePheSerSerValGluThrAsnIleGlyAsnPhe 147
 DB 541 TTCAGCAATCAGAACAGTGGGATTATCTTCAGCAGTGTTCAGACCAACATTTGGAACCTC 600
 QY 148 PheAspValMetThrGlyArgPheGlyAlaProValSerGlyValTyrPhePheThrPhe 167
 DB 601 TTTGATGTCATGACTGATAGATTGGGGCCCGCCAGTATCAGGTGTGATTTCTTCACCTTC 660
 QY 168 SerMetMetLysHisGluAspValGluGluValTyrValTyrLeuMetHisAsnGlyAsn 187
 DB 661 AGCATGATGAAGCATGAGATGTTGAGGAAGTGTATGTGTACCTTATGCACAATGGCAAC 720
 QY 188 ThrValPheSerMetTyrSerTyrGluMetLysGlyLysSerAspThrSerSerAsnHis 207
 DB 721 ACAGTCTTCAGCATGTACAGCTATGAATGAAGGCAATCAGATACATCCACCATCAT 780
 QY 208 AlaValLeuLysLeuAlaLysGlyAspGluValTrpLeuArgMetGlyAsnGlyAlaLeu 227
 DB 781 GCTGTGCTGAAGTAGCCAAAGGGGATGAGTTTGGCTGCGAATGGCAATGGCGCTCTC 840
 QY 228 HisGlyAspHisGlnArgPheSerThrPheAlaGlyPheLeuLeuPheGluThrLys 246
 DB 841 CATGGGACCAACACGCTTCCACCTTTGCAGGATTCCTGCTCTTTGAAACTAAG 897
 RESULT 19
 AA199523
 ID AA199523 standard; cDNA; 1620 BP.
 XX
 AC AA199523;
 XX
 DT 07-JAN-2002 (first entry)
 XX
 DE Human polynucleotide SEQ ID NO 21.
 XX
 KW Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;
 KW antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;
 KW vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic;
 KW cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;
 KW neurological disease; infection; human; secreted protein; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200155173-A2.
 XX
 PD 02-AUG-2001.
 XX
 PF 17-JAN-2001; 2001WO-US01356.
 XX
 XX 31-JAN-2000; 2000US-0179065.
 PR 04-FEB-2000; 2000US-0180628.
 PR 24-FEB-2000; 2000US-0184664.
 PR 02-MAR-2000; 2000US-0186350.
 PR 16-MAR-2000; 2000US-0189874.
 PR 17-MAR-2000; 2000US-0190076.
 PR 18-APR-2000; 2000US-0198123.
 PR 19-MAY-2000; 2000US-0205515.
 PR 07-JUN-2000; 2000US-0209467.
 PR 28-JUN-2000; 2000US-0214886.
 PR 30-JUN-2000; 2000US-0215135.
 PR 07-JUL-2000; 2000US-0216647.
 PR 07-JUL-2000; 2000US-0216880.
 PR 11-JUL-2000; 2000US-0217487.
 PR 11-JUL-2000; 2000US-0217496.
 PR 14-JUL-2000; 2000US-0218290.
 PR 26-JUL-2000; 2000US-0220963.
 PR 26-JUL-2000; 2000US-0220964.
 PR 14-AUG-2000; 2000US-0224518.
 PR 14-AUG-2000; 2000US-0224519.
 PR 14-AUG-2000; 2000US-0225213.
 PR 14-AUG-2000; 2000US-0225214.
 PR 14-AUG-2000; 2000US-0225266.
 PR 14-AUG-2000; 2000US-0225267.
 PR 14-AUG-2000; 2000US-0225268.
 PR 14-AUG-2000; 2000US-0225270.
 PR 14-AUG-2000; 2000US-0225447.
 PR 14-AUG-2000; 2000US-0225757.
 PR 14-AUG-2000; 2000US-0225758.
 PR 14-AUG-2000; 2000US-0225759.
 PR 18-AUG-2000; 2000US-0226279.
 PR 22-AUG-2000; 2000US-0226681.
 PR 22-AUG-2000; 2000US-0226868.
 PR 22-AUG-2000; 2000US-0227182.
 PR 23-AUG-2000; 2000US-0227009.
 PR 30-AUG-2000; 2000US-0228924.
 PR 01-SEP-2000; 2000US-0229287.
 PR 01-SEP-2000; 2000US-0229343.
 PR 01-SEP-2000; 2000US-0229344.
 PR 01-SEP-2000; 2000US-0229345.
 PR 05-SEP-2000; 2000US-0229509.
 PR 05-SEP-2000; 2000US-0229513.
 PR 06-SEP-2000; 2000US-0230437.
 PR 06-SEP-2000; 2000US-0230438.
 PR 08-SEP-2000; 2000US-0231242.
 PR 08-SEP-2000; 2000US-0231243.
 PR 08-SEP-2000; 2000US-0231244.
 PR 08-SEP-2000; 2000US-0231413.
 PR 08-SEP-2000; 2000US-0231414.
 PR 08-SEP-2000; 2000US-0232080.
 PR 12-SEP-2000; 2000US-0232081.
 PR 12-SEP-2000; 2000US-0231968.
 PR 14-SEP-2000; 2000US-0232397.
 PR 14-SEP-2000; 2000US-0232398.
 PR 14-SEP-2000; 2000US-0232399.
 PR 14-SEP-2000; 2000US-0232400.
 PR 14-SEP-2000; 2000US-0232401.
 PR 14-SEP-2000; 2000US-0233063.
 PR 14-SEP-2000; 2000US-0233064.
 PR 14-SEP-2000; 2000US-0233065.
 PR 21-SEP-2000; 2000US-0234223.
 PR 21-SEP-2000; 2000US-0234274.
 PR 25-SEP-2000; 2000US-0234997.
 PR 25-SEP-2000; 2000US-0234998.
 PR 26-SEP-2000; 2000US-0235484.
 PR 27-SEP-2000; 2000US-0235834.
 PR 27-SEP-2000; 2000US-0235836.
 PR 29-SEP-2000; 2000US-0236327.
 PR 29-SEP-2000; 2000US-0236367.
 PR 29-SEP-2000; 2000US-0236368.
 PR 29-SEP-2000; 2000US-0236369.
 PR 29-SEP-2000; 2000US-0236370.
 PR 02-OCT-2000; 2000US-0236802.
 PR 02-OCT-2000; 2000US-0237037.
 PR 02-OCT-2000; 2000US-0237038.
 PR 02-OCT-2000; 2000US-0237039.
 PR 02-OCT-2000; 2000US-0237040.
 PR 13-OCT-2000; 2000US-0239935.
 PR 13-OCT-2000; 2000US-0239937.
 PR 20-OCT-2000; 2000US-0240960.
 PR 20-OCT-2000; 2000US-0241221.
 PR 20-OCT-2000; 2000US-0241785.
 PR 20-OCT-2000; 2000US-0241786.
 PR 20-OCT-2000; 2000US-0241787.
 PR 20-OCT-2000; 2000US-0241808.

XX DE Human zacrp3 degenerate DNA, SEQ ID NO:10.
 XX DE
 XX DE
 KW Human zacrp3; adipocyte complement related protein homologue;
 KW ACRP30; C1q domain; collagen-like domain; energy balance modulation;
 KW cellular metabolism; metabolic disorder; obesity; anorexia;
 KW antimicrobial agent; infection; platelet aggregation inhibition;
 KW adhesion; activation; vascular injury; antibacterial; antiviral; ds.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 XX W0200063377-A1.
 PN
 XX
 PD 26-OCT-2000.
 XX
 XX 19-APR-2000; 2000WO-US10454.
 PF
 XX
 XX 20-APR-1999; 99US-0294943.
 PR
 XX (ZYMO) ZYMOGENETICS INC.
 PA
 XX Piddington CS, Bishop PD;
 PI
 XX WPI; 2000-665243/64.
 DR
 XX Novel zacrp3 polypeptides used to treat or prevent bacterial or viral
 PT infections, for wound healing, improving blood flow, and to analyze
 PT energy efficiency in mammals -
 PT
 XX
 PS Claim 10; Page 115; 123pp; English.
 XX
 CC The invention relates to the human zacrp3 protein (AAB29580) and to
 CC nucleic acids which encode it (AAC64058, AAC64063). zacrp3 is a homologue
 CC of adipocyte complement related protein (ACRP30) and contains a
 CC collagen-like domain comprising Gly-Xaa-Xaa or Gly-Xaa-Pro repeats, and a
 CC C-terminal C1q domain comprising 10 beta-strands. The zacrp3 gene is
 CC located on chromosome 5p12. The invention also relates to zacrp3
 CC fragments, fusion proteins containing zacrp3 polypeptides,
 CC zacrp3-specific antibodies, expression constructs and host cells
 CC comprising zacrp3 nucleic acids, and methods of recombinant production of
 CC zacrp3. Human zacrp3, and its agonists and antagonists may be used in the
 CC study and modulation of cellular metabolism and energy balance in
 CC mammals, and may therefore be used to treat disorders such as obesity and
 CC anorexia, and conditions associated with these disorders. Due to its C1q
 CC like domain, zacrp3 and zacrp3-containing fusion proteins may be useful
 CC as antimicrobial agents, promoting lysis or phagocytosis of infectious
 CC organisms such as bacteria or viruses. zacrp3, its fragments, fusion
 CC proteins, antibodies and activity modulators may also be used to inhibit
 CC collagen-induced platelet aggregation, adhesion, or activation, and may
 CC therefore have potential for promoting blood flow within the vasculature
 CC of a mammal e.g., to treat injury to the vasculature or other collagenous
 CC tissue. Human zacrp3 and its antibodies may additionally be used to study
 CC dimerisation and oligomerisation. The present sequence represents a
 CC degenerate DNA sequence encoding human zacrp3.
 XX
 SQ Sequence 738 BP; 130 A; 74 C; 145 G; 99 T; 290 other;
 Alignment Scores:
 Pred. No.: 2,7e-84 Length: 738
 Score: 1171.00 Matches: 205
 Percent Similarity: 83.33% Conservative: 0
 Best Local Similarity: 83.33% Mismatches: 41
 Query Match: 85.66% Indels: 0
 DB: 21 Gaps: 0

US-10-036-041-2 (1-246) x AAC64063 (1-738)

QY 1 MetLeuTrpArgGlnLeuLeuIleTyrTrpGlnLeuLeuAlaLeuPheLeuProPheCys 20
 III III III IIIIIIIIIII III IIIII IIIIIIIII
 DB 1 ATGTYNTGGMNCARYNATHATYTGCCARYTNTGNCNTNTTNTTTCCTNTTYGY 60
 QY 21 LeuCysGlnAspGluTyrMetGluSerProGlnThrGlyGlyLeuProProAspCysSer 40

Db 61 YTNITGTCARGAYGARTATGAGGWSNCCNCARACNGGNGGNTTNCNCNGGAYGTWSN 120
 QY 41 LysCysCysHisGlyAspTyrSerPheArgGlyTyrGlnGlyProGlyProGlyProGly 60
 DB 121 AARTGYTYGTCAYGNGGAYTATWSNTTYMGNGGNTATCARGCNCNCNGCNCNGN 180
 QY 61 ProGlyProGlyProGlyAsnHisGlyAsnAsnGlyAsnAsnGlyAlaThrGlyHisGlu 80
 DB 181 CCNCCNGGNATHCCNGNAAAYCAYGGNAAAYAYGGNAAAYAYGGNCCNCCNGCAYGAR 240
 QY 81 GlyAlaLysGlyGluLysGlyAspLysGlyAspLeuGlyProArgGlyGluArgGlyGln 100
 DB 241 GGNGCNAARGNGCARAARGNGAYAAARGNGAYTTNGGNCNNGNGNGGNGGNCAR 300
 QY 101 HisGlyProLysGlyGluLysGlyTyrProGlyTyrProGlyTyrProGlyTyrProGly 120
 DB 301 CAYGNCNCAARGNGCARAARGNGTAYCCNGGNATHCCNCNGCNGARYTNCARATHGCTTY 360
 QY 121 MetAlaSerLeuAlaThrHisPheSerAsnGlnAsnSerGlyTyrLeuPheSerSerVal 140
 DB 361 ATGCNWSNVTNGCNACNCAYTTTWSNAAAYCARAAAYWSNGGNATHATHTTWSNWSNGTN 420
 QY 141 GluThrAsnLysGlyAsnPhePheAspValMetThrGlyArgPheGlyAlaProValSer 160
 DB 421 GARACNAAAYATHGNGNAYTTTGYTGTATGACNGGNGMNTTYGNGCNCNGTWSN 480
 QY 161 GlyValTyrPhePheThrPheSerMetMetLysHisGluAspValGluGluValTyrVal 180
 DB 481 GGNGTNTATYTTTACNTTWSNATGATGAARCAAYGARGAYGTNGARGARGNTATGTN 540
 QY 181 TyrLeuMetHisAsnGlyAsnThrValPheSerMetTyrSerTyrGluMetLysGlyLys 200
 DB 541 TAYTNTATGCAYAAAYGNGNAAAYACNTTNTTWSNATGTATYWSNTAYGARATGAARGNAR 600
 QY 201 SerAspThrSerSerAsnHisAlaValLeuLysLeuAlaLysGlyAspGluValTrpLeu 220
 DB 601 WSNCAAYACNWSNWSNAAAYCAYGCGTNTYTNAARYTNGCNAARGNGAYGARGTNTGGYT 660
 QY 221 ArgMetGlyAsnGlyAlaLeuHisGlyAspHisGlnArgPheSerThrPheAlaGlyPhe 240
 DB 661 MGNATGGGNAAYGGNGCNYTNCAYGGNGAYCAYCARMGNTTYSNACNTTYGNGGNTTY 720
 QY 241 LeuLeuPheGluThrLys 246
 DB 721 YTNVTNTTYGARACNAR 738
 RESULT 21
 ID AAI61016/c
 ID AAI61016 standard; cDNA; 1799 BP.
 XX
 AC AAI61016;
 XX
 XX 22-OCT-2001 (first entry)
 XX
 XX Human polynucleotide SEQ ID NO 5005.
 KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
 KW peripheral nervous system; neuropathy; central nervous system; CNS;
 KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
 KW anyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
 KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
 KW leukaemia; ss.
 XX
 OS Homo sapiens.
 XX
 XX W0200153312-A1.
 XX
 XX 26-JUL-2001.
 XX
 XX 26-DEC-2000; 2000WO-US34263.
 PF
 XX
 XX 21-JAN-2000; 2000US-0488725.
 PR

PR 25-APR-2000; 2000US-0552317.
 PR 09-JUL-2000; 2000US-0598042.
 PR 19-JUL-2000; 2000US-0620312.
 PR 03-AUG-2000; 2000US-0653450.
 PR 14-SEP-2000; 2000US-0662191.
 PR 19-OCT-2000; 2000US-0693036.
 PR 29-NOV-2000; 2000US-0727344.
 XX (HYSE-) HYSEQ INC.
 XX
 XX Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
 PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;
 PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;
 XX
 DR WPI: 2001-442253/47.
 DR P-PSDB; AAM41860.
 XX
 PT Novel nucleic acids and polypeptides, useful for treating disorders
 PT such as central nervous system injuries -
 XX
 PS Claim 1; SEQ ID NO 5005; 10078pp; English.
 XX
 CC The invention relates to human nucleic acids (AAI57798-AAI61369) and
 CC the encoded polypeptides (AAM38642-AAM42213) with nootropic,
 CC immunosuppressant and cytostatic activity. The polynucleotides are useful
 CC in gene therapy. A composition containing a polypeptide or polynucleotide
 CC of the invention may be used to treat diseases of the peripheral nervous
 CC system, such as peripheral nervous injuries, peripheral neuropathy and
 CC localised neuropathies and central nervous system diseases, such as
 CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
 CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
 CC utilisation of the activities such as: Immune system suppression,
 CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
 CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
 CC assays for receptor activity, arthritis and inflammation, leukaemias and
 CC C.N.S disorders.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification.
 XX
 SQ Sequence 1799 BP; 531 A; 389 C; 344 G; 535 T; 0 other;

Alignment Scores:
 Pred. No.: 4,88e-59 Length: 1799
 Score: 858-50 Matches: 169
 Percent Similarity: 83.66% Conservative: 0
 Best Local Similarity: 83.66% Mismatches: 1
 Query Match: 62.80% Indels: 33
 DB: 22 Gaps: 1

US-10-036-041-2 (1-246) x AAI61016 (1-1799)
 QY 77 ThrGlyHisGluGlyAlaLysGlyGluLysGlyAspLysGlyAspLeuGlyProArgGly 96
 DB 1797 ACTGGTCATGAAGAGCCAAAGGTGAGAGGGCGACAAAGGTGACCTGGGGCTCGAGGG 1738
 QY 97 GluArgGlyGlnHisGlyProLysGlyGluLysGlyTyrProGlyIleProGluLeu 116
 DB 1737 GAGCGGGGCGACATGGCCCCAAAGAGAGAGAGGGCTACCCGGGGATTCCACCAAGACT- 1679
 QY 116 ----- 116
 DB 1678 TCAGCTGGAGTGCAGTGGTGTGATCTGGCTCACTGCAGCTCCACCAAGGTTCAAGCG 1619
 QY 117 -----GlnIleAlaPheMetAlaSerLeu 124
 DB 1618 ATCTCTTGGCTCAACCTCTGGAGTAGCTGGGATTACAGATTGCATTTCATGCTTCTCG 1559
 QY 125 AlaThrHisPheSerAsnGlnAsnSerGlyIleIlePheSerSerValGluThrAsnIle 144
 DB 1558 GCAACCCCACTTCAGCAATTCAGAACAGTGGGATTATCTTTCAGCAGTGTGTGAGACCAACATT 1499
 QY 145 GlyAsnPhePheAspValMetThrGlyArgPheGlyAlaProValSerGlyValThrPhe 164
 DB 1445 GlyAsnPhePheAspValMetThrGlyArgPheGlyAlaProValSerGlyValThrPhe 164

Db 1498 GGAACCTCTTTGATGTGTCATGCTGAGATTGGGGCCCCCAGTATCAGGTCTGTATTC 1439
 QY 165 PheThrPheSerMetMetLysHisGluAspValGluGluValTyrValTyrLeuMetHis 184
 Db 1438 TTCACCTTCAGCATGATGATGAGCATGAGGATGTTGAGGAAGTGTATGTGTTACCTTATGCAC 1379
 QY 185 AsnGlyAsnThrValPheSerMetTyrSerTyrGluMetLysGlyLysSerAspThrSer 204
 Db 1378 AATGGCAACACAGTCTTCAGCATGTACAGCTATGAAATGAAGGCAAAATCAGATACATCC 1319
 QY 205 SerAsnHisAlaValLeuLysLeuAlaLysGlyAspGluValTyrLeuArgMetGlyAsn 224
 Db 1318 AGCAATCATGCTGTGCTGAGAGCTAGCCAAAGGGATGAGGTTTGGCTCCGAATGGCAAT 1259
 QY 225 GlyAlaLeuHisGlyAspHisGlnArgPheSerThrPheAlaGlyPheLeuPheGlu 244
 Db 1258 GGGCTCTCCATGGGACCAACGCTTCTCCACCTTTCAGGATTCCTGCTCTTTGAA 1199
 QY 245 ThrIys 246
 Db 1198 ACTAAG 1193
 RESULT 22
 ABK35221
 ID ABK35221 standard; cDNA; 1608 BP.
 XX
 AC ABK35221;
 XX
 DT 08-MAY-2002 (first entry)
 XX
 DE Human cDNA encoding secreted protein #359.
 XX
 KW Human; secreted protein; gene; ss; nutritional supplement; haemophilia;
 KW viral infection; bacterial infection; fungal infection; diabetes; asthma;
 KW autoimmune disorder; rheumatoid arthritis; multiple sclerosis; tumour;
 KW autoimmune thyroiditis; allergic reaction; neurodegenerative disease;
 KW Alzheimer's disease; Parkinson's disease; liver fibrosis; cancer; ulcer;
 KW coagulation disorder; inflammatory disorder; Crohn's disease; incision;
 KW tissue regeneration; wound healing; burn; haematopoiesis;
 KW myeloid cell deficiency; lymphoid cell deficiency.
 XX
 OS Homo sapiens.
 XX
 PN WO200177288-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 29-MAR-2001; 2001WO-US10224.
 XX
 PR 06-APR-2000; 2000US-195582P.
 XX
 PA (GEMY) GENETICS INST INC.
 XX
 PI Wong GG, Clark HF, Fechtel K, Agostino MJ, Howes SH, Resnick RJ;
 PI Gulukota K, Graham JR;
 XX
 DR WPI: 2002-179321/23.
 XX
 PT Five hundred and ninety two polynucleotides derived from a variety of
 PT human tissue sources which encode secreted proteins, useful for
 PT treating immune deficiencies and disorders such as autoimmune disorders
 PT
 PS Claim 1; Page 261-262; 372pp; English.
 XX
 CC The invention relates to 592 polynucleotides which have been derived from
 CC a variety of human tissue sources and which encode novel secreted
 CC proteins. The polynucleotides can be used as probes for the
 CC identification and isolation of full length cDNA and genomic DNA. The
 CC polynucleotides and proteins can also be used as nutritional supplements.
 CC The proteins are useful in the treatment of various immune deficiencies
 CC and disorders such as viral infections, bacterial infections, fungal
 CC infections, autoimmune disorders (e.g. rheumatoid arthritis, multiple

CC sclerosis, autoimmune thyroiditis and diabetes) and allergic reactions
 CC and conditions (e.g. asthma). They are also useful for treating
 CC neurodegenerative diseases (e.g. Alzheimer's disease, Parkinson's
 CC disease), liver fibrosis, coagulation disorders (e.g. haemophilia),
 CC inflammatory disorders (e.g. Crohn's disease) and tumours. They are also
 CC useful for tissue regeneration, for wound healing and in the treatment of
 CC burns, incisions and ulcers. The proteins are also useful for regulating
 CC haematopoiesis and for treating myeloid or lymphoid cell deficiencies.
 CC Sequences ABK34863-ABK35454 represent polynucleotides of the invention.

XX
 SQ Sequence 1608 BP: 487 A; 305 C; 339 G; 477 T; 0 other;

Alignment Scores:

Pred. No.: 2.43e-58 Length: 1608
 Score: 849.00 Matches: 159
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 62.11% Indels: 0
 DB: 24 Gaps: 0

US-10-036-041-2 (1-246) x ABK35221 (1-1608)

QY 88 AspLysGlyAspLeuGlyProArgGlyGluArgGlyGlnHisGlyProLysGlyGluLys 107
 DB 2 GACAAAGGTGACCTGGGCCTCGAGGGAGCGGGGCGAGCATGGCCCCCAAGGAGAGAAG 61
 QY 108 GlyTyrProGlyLeuProGluLeuGlnIleAlaPheMetAlaSerLeuAlaThrHis 127
 DB 62 GCTACCCCGGGATTCCACCAGAACTTCAGATTGATTCATGGCTCTCTGCAACCCAC 121
 QY 128 PheSerAsnGlnAsnSerGlyIlePheSerValGluThrAsnIleGlyAsnPhe 147
 DB 122 TTCAGCAATCAGAACAGTGGGATTATCTTCAGCAGTGTGTGAGACCAACATTGGAAACTTC 181
 QY 148 PheAspValMetThrGlyArgPheGlyAlaProValSerGlyValTyrPhePheThrPhe 167
 DB 182 TTTGATGTCATGACCTGGTAGATTTCGGGCCCGCCAGTATCATGTGTATTTCTTCACCTTC 241
 QY 168 SerMetLysHisGluAspValGluGluValTyrValTyrLeuMetHisAsnGlyAsn 187
 DB 242 ACATGATGATGACATGAGGATCTTGAGGAAGTGTATGTACCTTATGCAATGGCAAC 301
 QY 188 ThrValPheSerMetTyrSerTyrGluMetLysGlyLysSerAspThrSerSerAsnHis 207
 DB 302 ACAGTCTTCAGCATGTACAGCTATCAAAATGAAGGGCAAAATCAGATACATCCAGCAATCAT 361
 QY 208 AlaValLeuLysLeuAlaLysGlyAspGluValTyrLeuArgMetGlyAsnGlyAlaLeu 227
 DB 362 GCTGTGCTGAAGCTAGCCAAAGGGGATGAGTTTGGCTGCGAATGGGCAATGGCTCTC 421
 QY 228 HisGlyAspHisGlnArgPheSerThrPheAlaGlyPheLeuLeuPheGluThrLys 246
 DB 422 CATGGGGACCAACACCGCTTCACCTTTGCAGGATTCCTGCTCTTTGAAACTAAG 478

RESULT 23

AAAC02874
 ID AAC02874 standard; cDNA; 471 BP.

XX AC AAC02874;

XX 06-OCT-2000 (first entry)

XX Human secreted protein 5' EST, SEQ ID NO: 2872.

DE Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
 KW gene therapy; chromosome mapping; ss.

XX Homo sapiens.

XX EP1033401-A2.

XX 06-SEP-2000.

XX

PF 21-FEB-2000; 2000EP-0200610.

XX 26-FEB-1999; 990US-0122487.

XX (GEST) GENSET.

XX Dumas Milne Edwards J, Duclert A, Giordano J;

XX WPI; 2000-500381/45.

XX P-PSDB; AAG02868.

PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
 PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
 PT diagnostic, forensic, gene therapy and chromosome mapping procedures -
 PS Claim 1; SEQ ID 2872; 71pp + CD-ROM; English.

XX The present sequence is one of a large number of 5' ESTs derived from
 CC mRNAs encoding secreted proteins. An ORF has been identified within the
 CC sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs
 CC derived from 30 different tissues. EST sequences usually correspond
 CC mainly to the 3' untranslated region (UTR) of the mRNA because they are
 CC often obtained from oligo-dT primed cDNA libraries. Such ESTs are not
 CC well suited for isolating cDNA sequences derived from the 5' ends of
 CC mRNAs and even in those cases where longer cDNA sequences have been
 CC obtained, the full 5' UTR is rarely included. 5' ESTs are derived from
 CC mRNAs with intact 5' ends and can therefore be used to obtain full length
 CC cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic,
 CC gene therapy and chromosome mapping procedures. They are used to obtain
 CC upstream regulatory sequences and to design expression and secretion
 CC vectors.

XX Sequence 471 BP: 107 A; 130 C; 134 G; 99 T; 1 other;

Alignment Scores:

Pred. No.: 8.56e-49 Length: 471
 Score: 721.00 Matches: 127
 Percent Similarity: 99.22% Conservative: 0
 Best Local Similarity: 99.22% Mismatches: 1
 Query Match: 52.74% Indels: 1
 DB: 21 Gaps: 0

US-10-036-041-2 (1-246) x AAC02874 (1-471)

QY 1 MetLeuTrpArgGlnLeuIleTyrTrpGlnLeuLeuAlaLeuPheLeuProPheCys 20
 DB 88 ATGCTTTGGAGGCGAGCTCATCTATTGGCAACTGCTGGCTTTGTTTCTCCCTTTTGC 147
 QY 21 LeuCysGlnAspGluTyrMetGluSerProGlnThrGlyLeuProProAspCysSer 40
 DB 148 CTGTGTCAAGATGAATACATGGAGTCTCCAAACCGGAGGACTACCCCGAGACTGCAGT 207
 QY 41 LysCysCysHisGlyAspTyrSerPheArgGlyTyrGlnGlyProGlyProProGly 60
 DB 208 AAGTGTGTGTCATGGAGACTACAGCTTCGAGGCTACCAAGGCCCTGGGCCACCGGCG 267
 QY 61 ProGlyLeuProGlyAsnHisGlyAsnAsnGlyAsnAsnGlyAlaThrGlyHisGlu 80
 DB 268 CCTCTGGCATTCAGGAAACCATGGAACAATGGCAATGGAGCCACTGTCATGA 327
 QY 81 GlyAlaLysGlyGluLysGlyAspLysGlyAspLeuGlyProArgGlyGluArgGlyGln 100
 DB 328 GGAGCCAAAGTGGAGAGGGCGACAAAGGTGACCTGGGGCTCGAGGGGAGCGGGGCGAG 387
 QY 101 HisGlyProLysGlyGluLysGlyTyrProGlyLeuProGlyLeuGlnIleAlaPhe 120
 DB 388 CATGGCCCCCAAGAGAGAGAGGGCTACCCGGGATTCACCAAGACTTCAGATTGCATTC 447
 QY 121 MetAlaSerLeuAlaThrHisPhe 128
 DB 448 ATGGCTTCTCTGGM-ACCCACTTC 470

RESULT 24

AA39551
ID AAX39551 standard; DNA; 472 BP.
XX AC AAX39551;
XX
XX 21-JUN-1999 (first entry)
XX
XX Human secreted protein 5' EST SEQ ID NO 149.
XX
XX Human; secreted protein; EST: expressed sequence tag; diagnosis;
XX forensic; gene therapy; chromosome mapping; signal peptide;
XX upstream regulatory sequence; cytokine activity; cell proliferation;
XX differentiation; haematopoiesis regulation; tissue growth regulation;
XX reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
XX thrombolytic; anti-inflammatory; tumour inhibition; ds.
XX
XX Homo sapiens.
XX
XX WO9906551-A2.
XX
XX 11-FEB-1999.
XX
XX 31-JUL-1998; 98WO-IB01235.
XX
XX 01-AUG-1997; 97US-0905133.
XX
XX (GENT) GENSET.
XX
XX Duclert A, Dumas Milne Edwards J, Lacroix B;
XX
XX WPI; 1999-153781/13.
XX P-PSDB; AAY11485.
XX
XX New nucleic acids encoding human secreted - proteins obtained from
XX cDNA libraries prepared from substantia nigra, cerebellum, surrenals
XX and fetal brain tissue
XX
XX Claim 1; Page 263; 434pp; English.
XX
XX AAX39440 to AAX39597 represent 5' expressed sequence tags (ESTs) for
XX human secreted proteins, and encode the proteins given in AAX11374 to
XX AAX11531, respectively. The proteins given represent the signal peptide
XX and an N-terminal fragment of a secreted protein. The nucleic acid
XX sequences can be used for producing secreted human gene products. They
XX can also be used to develop products for diagnosis and therapy. The
XX proteins obtained may have cytokine activity, cell
XX proliferation/differentiation activity, haematopoiesis regulating
XX activity, tissue growth regulating activity, reproductive hormone
XX regulating activity, chemotactic/chemokinetic activity, haemostatic and
XX thrombolytic activity, receptor/ligand activity, anti-inflammatory
XX activity, tumour inhibition activity or other activities. The products
XX can be used in forensic, gene therapy and chromosome mapping procedures.
XX The sequences can also be used for obtaining corresponding promoter
XX sequences. The nucleic acids encoding the signal peptide can be used for
XX directing extracellular secretion of a polypeptide or the insertion of a
XX polypeptide into a membrane, or importing a polypeptide into a cell.
XX
XX Sequence 472 BP; 108 A; 130 C; 134 G; 99 T; 1 other;
SQ

Alignment Scores:
Pred. No.: 8,58e-49 Length: 472
Score: 721.00 Matches: 127
Percent Similarity: 99.22% Conservative: 0
Best Local Similarity: 99.22% Mismatches: 1
Query Match: 52.74% Indels: 1
DB: 20 Gaps: 0

US-10-036-041-2 (1-246) x AAX39551 (1-472)

OY 1 MetLeuTrpArgGlnLeuIleTyrTrpGlnLeuAlaLeuPheLeuPropheCys 20
Db ATGCTTTGGAGGAGCTCATCTATTGGCACTGCTGTTGTTTCTCCCTTTTGC 148

OY 21 LeuCysGlnAspGluTyrMetGluSerProGlnThrGlyLeuProProAspCysSer 40
Db |||||
149 CTGTGTCAAGATGAATACATGAGTCTCCACAACCGGAGGACTACCCCCAGACTGCACT 208
OY 41 LysCysCysHisGlyAspTyrSerPheArgGlyTyrGlnGlyProProGlyProGly 60
Db |||||
209 AAGTGTGTTCATGGAGCTTACAGCTTTCGAGGCTACCAAGGCCCTCGGGCCACCGGC 268
OY 61 ProProGlyIleProGlyAsnHisGlyAsnAsnGlyAsnAsnGlyAlaThrGlyHisGlu 80
Db |||||
269 CCTCTCGCATTCAGGAACCATGAAACAATGGCAATGGAGCCCTGTCATGAA 328
OY 81 GlyAlaLysGlyGluLysGlyAspLysGlyAspLeuGlyProArgGlyGluArgGlyGln 100
Db |||||
329 GGAGCCAAAGGTGAGAAGGGCGACAAAGGTGACCTGGGGCTCGAGGGGAGCGGGCAG 388
OY 101 HisGlyProLysGlyGluLysGlyTyrProGlyIleProProGluLeuGlnIleAlaPhe 120
Db |||||
389 CATGCCCCCAAGGAGAGAGGGCTACCCGGGGATTCACCAGAACTTCAGATTGCATTC 448
OY 121 MetAlaSerLeuAlaThrHisPhe 128
Db |||||
449 ATGGCTTCTCTGGM-ACCACATTC 471
RESULT 25
AAF93419
ID AAF93419 standard; cDNA; 546 BP.
XX
XX AAF93419;
XX
XX 21-MAY-2001 (first entry)
XX
XX cDNA encoding SRT protein isolated from prostate tissue SEQ ID 240.
XX Human; SRT; gene therapy; gene mapping; tissue typing; ss.
XX Homo sapiens.
XX
XX WO200107611-A2.
XX
XX 01-FEB-2001.
XX
XX 21-JUL-2000; 2000WO-US200006.
XX
XX 26-JUL-1999; 99US-0145701.
XX
XX (GETH) GENENTECH INC.
XX
XX Baker KP, Goddard A, Wood WI;
XX
XX WPI; 2001-112729/12.
XX
XX New isolated nucleic acid molecule encoding a SRT polypeptide is useful
XX for production of recombinant SRT polypeptides, gene mapping,
XX diagnosing genetic disorders and for gene therapy -
XX
XX Claim 2; Fig 240; 663pp; English.
XX
XX Sequences AAF93180 - AAF93743 represent polynucleotide sequences encoding
XX human SRT proteins. The cDNA sequences are isolated from various
XX different human tissue cDNA libraries. The invention relates to a method
XX for detecting cDNA encoding an SRT protein, a vector containing cDNA
XX encoding SRT, a host cell transformed with the vector, an isolated SRT
XX polypeptide, and an antibody which binds to SRT. The polynucleotide
XX sequence can be used in gene therapy and is useful in the recombinant
XX production of SRT polypeptides, as a hybridisation probe to screen
XX libraries to isolate cDNAs with sequence identity to SRT polypeptides, to
XX map the gene encoding the SRT polypeptides and analysing genetic
XX disorders, tissue typing and disease tissue detection. The SRT
XX polynucleotide sequences can be used in polymerase chain reaction,
XX screening for new therapeutic molecules and generation of antisense RNA
XX and DNA.

SQ Sequence 546 BP; 149 A; 129 C; 155 G; 108 T; 5 other;

Alignment Scores:

Pred. No.: 3.02e-32 Length: 546
Score: 513.50 Matches: 94
Percent Similarity: 55.29% Conservatives: 0
Best Local Similarity: 55.29% Mismatches: 3
Query Match: 37.56% Indels: 73
DB: 22 Gaps: 1

US-10-036-041-2 (1-246) x AAF93419 (1-546)

Qy 1 MetLeuTrpArgGlnLeuIleTyrTrpGlnLeuLeuAlaLeuPhePheLeuProPheCys 20
|||||
Db 37 ATGCTTTGGAGCAGCTATATATGGCAACTGCTGGCTTTGTTTCTCCTCTTTGTC 96
Qy 21 LeuCysGlnAspGluTyrMetCglu----- 28
|||||
Db 97 NTGTCGAAGATGAATACATGAGGTGAGCGGAAGAACTAATAAAGTGTGGCAAGATA 156
Qy 28 ----- 28
Db 157 GTGCAAAACCACACGACTGGCGGTAGCGGCTCCAGGAGGAGAAAGTGAGAGCGG 216
Qy 28 ----- 28
Db 217 AGCCATCTCTAAACCTGGGACTGTGGATAATAACACTTNTACAGACCTAAATCCCTGAGA 276
Qy 28 ----- 28
Db 277 CCAGATGAGTACCCACCCGAGGTAGATGACCTAGCCAGATCACCACATCTTGGGCG 336
Qy 29 ---SerProGlnThrGlyLeuProAspCysSerLysCysHisGlyAspTyr 47
|||||
Db 337 CAGTNTCCAAACCCGAGGAGTACCCAGACTCAGTCACTAGTGTTCATGCGACACTAC 396
Qy 48 SerPheArgGlyTyrGlnGlyProGlyProGlyProGlyProGlyProGlyProGlyProGly 67
|||||
Db 397 AGCTTTGAGGTACCAAGGCCGCCCTGGGCCACCGGCCCTCTCTGGCATTCAGGAAAC 456
Qy 68 HisGlyAsnAsnGlyAsnAsnGlyAlaThrGlyHisGlyGlyAlaGlyGlyGlyGly 87
Db 457 CATGGAACAATGGCAACAATGGAGCCCACTGGTCAATGAAGGAGGCAAGGTGAGAAGGC 516
Qy 88 AspLysGlyAspLeuGlyProArgGlyGlu 97
|||||
Db 517 GACAAAGGTGACCTGGGCGCTCGAGGGGAG 546

RESULT 26

ABK3598
ID ABK3598 standard; DNA; 804 BP.

XX AC ABK35598;

XX DT 08-MAY-2002 (first entry)

XX DE Gene encoding novel human secreted or membrane-associated protein #17.

XX KW Human; secreted protein; membrane-associated protein; hypertension;
KW inflammatory disorder; neurological disorder; haematopoietic disorder;
KW skeletal developmental disorder; growth abnormality; autoimmune disorder;
KW neurodegenerative disorder; nervous system disorder; bacterial infection;
KW peripheral myelinopathy; viral infection; cancer; obesity; diabetes;
KW hypotension; sexual development disorder; blood disorder; gene; ds.

XX OS Homo sapiens.

XX XX WO200204600-A2.

XX XX 17-JAN-2002.

XX XX 12-JUL-2001; 2001WO-US21985.

XX PF

PR 12-JUL-2000; 2000US-218033P.
PR 21-AUG-2000; 2000US-226517P.
XX XX (SMIK) SMITHKLINE BEECHAM CORP.
PA (SMIK) SMITHKLINE BEECHAM PLC.
PA (GLAX) GLAXO GROUP LTD.
XX XX
PI Agarwal P, Cogswell JP, Lai Y, Martensen SA, Rizvi SK, Strum JC;
PI Smith RF, Xiang Z, Xie Q;
XX XX
DR WPI: 2002-188468/24.
DR P-PSDB: AAU84378.
XX XX
PT Novel secreted and membrane-associated polypeptides and polynucleotides
PT encoding the polypeptides, for preventing, treating and ameliorating
PT cancers, mental or sexual developmental disorders, and malignant tumours
PT
PT
PT
PT
PS Claim 2; Page 110; 151pp; English.

XX The present invention relates to the isolation of novel human secreted
CC or membrane-associated proteins and the genes encoding them. The
CC sequences of the invention are useful for treating, preventing and
CC ameliorating various diseases such as inflammatory disorders (e.g.
CC asthma), neurological disorders (e.g. dementia), haematopoietic
CC disorders, skeletal developmental disorders, growth abnormalities,
CC neurodegenerative disorders (e.g. Huntington's disease), nervous system
CC disorders, autoimmune disorders (e.g. rheumatoid arthritis),
CC peripheral myelinopathies, viral and bacterial infections,
CC alpha-mannosidosis, diabetes, cancers, malignant tumours, hyper- and
CC hypotension, obesity, bulimia, anorexia, manic depression, delirium,
CC mental retardation, Tourette's syndrome, schizophrenia, growth, mental
CC or sexual development disorders, and dysfunctions of the blood cascade
CC system including those leading to stroke. ABK35582-ABK35609 represent
CC the genes encoding the novel human secreted or membrane-associated
CC proteins of the invention.

XX SQ Sequence 804 BP; 130 A; 293 C; 268 G; 113 T; 0 other;

Alignment Scores:

Pred. No.: 4.37e-17 Length: 804
Score: 325.00 Matches: 82
Percent Similarity: 48.55% Conservatives: 35
Best Local Similarity: 34.02% Mismatches: 100
Query Match: 23.77% Indels: 24
DB: 24 Gaps: 8

US-10-036-041-2 (1-246) x ABK35598 (1-804)

Qy 21 LeuCysGlnAspGluTyrMetGluSerProGlnThrGlyLeuPro----- 36
|||||
Db 91 GTGTGGACCGCATGGGCCCGCTGGCTCCGACGCGCGCTTCCGTGCCGCC 150
Qy 37 -----ProAspCysSerLysCysHisGlyAspTyrSerPheArgGlyTyrGlnGly 54
|||||
Db 151 CCCTTCCCGCCAGCGCCAGGAGAGGTGGCGCGCGCGGAGAACGACGCTCGCGGGG 210
Qy 55 ProProGlyProGlyProGlyProGlyProGlyProGlyProGlyProGlyProGlyProGly 74
|||||
Db 211 CCCCTGAGACACCATGTCACAGAGGCGCCCGCAGGAGAACCCGCGAGGCCGCCGCCG 270
Qy 75 GlyAlaThrGlyHisGluGlyAlaLysGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGly 94
|||||
Db 271 GGCCTCTCCCGGT---CCAGGCTCGCGGGGCGCCCTGGACACACAGGTCCCAAGAGGCC 327
Qy 95 ArgGlyGluArgGlyGlnHisGlyProLysGlyGluLysGlyTyrProGly----- 111
|||||
Db 328 CCAGGAGAACCCGCGAGCGCCCGCGCGCGCTCCCGGT---CCAGGTCCGCGCGGG 384
Qy 112 -----IleProProGluLeuGlnIleAlaPheMetAlaSerLeu 124
|||||
Db 385 GTGGGCGCGCTGCGCGGTACGTGCCT-----CGCATTCGTTTACGCGGCGCTG 435

Qy	125	AlaThrHisPheSerAsnGlnAsnSerGlyIleIlePheSerValGluThrAsnIle	144
Db	436	CGCGGGCCCCACGAGGTTCAGAGGTG--CTGC GGCTTCGACGACGTGGTGACCACGTCG	492
Qy	145	GlyAsnPhePheAspValMetThrGlyArgPheGlyAlaProValSerGlyValTyrPhe	164
Db	493	GGCAACGCCCTACGAGGAGCAGCCGCGCAAGTTACTTGGCCCCATGCGAGCGTCTACTTC	552
Qy	165	PheThrPheSer---MetMetLysHisGluAspValGluGluValTyrValTyrLeuMet	183
Db	553	TTCGCTTACCACGTCGTCTAATGCGGGCGGCGCACGACCATGTCGGCCGACCTCATG	612
Qy	184	HisAsnGlyAsnThrValPheSerMetTyrSertYrGluMetLysGlyLysSerAspThr	203
Db	613	AAGAACGACGAGGTTCGCGGCGCAGCCATTGCTCAGGACGCGCAGAACATCAGACTAC	672
Qy	204	SerSerAsnHisAlaValLeuLysLeuAlaLysGlyAspGluValTrpLeuArgMetGly	223
Db	673	GCCAGCAACACGCGTCATTCTGCACCTGTGCAGCTGGCGGACGAGGCTCTCATCAAGCTGGAC	732
Qy	224	AsnGlyAlaLeuHisGlyAspHis--GlnArgPheSerThrPheAlaGlyPheLeuLeu	242
Db	733	GGCGGGAAGTGCAGCGCGGCAACACCAAGTACAGCACCTTCTCCGGCTTCATCATC	792
Qy	243	Phe 243	
Db	793	TAC 795	
RESULT	27		
AAZ61744	ID	AAZ61744 standard; cDNA; 1107 BP.	
XX	AC	AAZ61744;	
XX	DE	27-MAR-2000 (first entry)	
XX	CNA	cDNA encoding rat skin cell secreted protein, SEQ ID NO:217.	
KW	SKIN	dermal papilla; keratinocyte; neonatal foreskin fibroblast;	
KW	embryonic	skin cell; keratinocyte stem cell; transit amplifying cell;	
KW	secreted	transmembrane; inflammation; cancer; neurological disease;	
KW	angiogenesis;	tumour vascularisation; growth disorder;	
KW	developmental	disorder; skin wound; hair follicle disorder;	
KW	anti-inflammatory;	cytostatic; neuroprotective; vulvury; ss.	
OS	Rattus	sp.	
XX	WO955865-A1.		
XX	04-NOV-1999.		
XX	29-APR-1999;	99WO-NZ00051.	
PR	29-APR-1998;	98US-0069726.	
PR	09-NOV-1998;	98US-0188930.	
XX	(GENE-)	GENESIS RES & DEV CORP LTD.	
PI	Strachan L,	Sleeman M, Watson JD, Orrust R, Kumble A, Murison JG;	
DR	WPI;	2000-072177/06.	
DR	p-PSDB;	AAV76039.	
PT	Novel polynucleotides	useful for the treatment of various conditions	
XX	Including	wounds and cancer -	
PS	Claim 1;	Page 142-143; 235pp; English.	
XX	The invention	relates to novel nucleic acid sequences derived from rat	
CC	dermal papilla,	human keratinocytes and neonatal foreskin fibroblasts,	
CC	and mouse embryonic	skin, keratinocyte stem cells and transit amplifying	
CC	cells. Polypeptides	of the invention may be used to treat inflammation,	
CC	cancer and neurological	diseases. The proteins may be used to stimulate	

Qy 191 SerMetTyrSerTyrGluMetLys---GlyLysSerAspThrSerSerAsnHisAlaVal 209
 Db 828 CGCATTCGGACTTTTGACGGCAACACCGGCAACCGAGCTGGGCTCCACCATC 887
 Qy 210 LeuLysLeuAlaLysGlyAspGluValTrpLeuArgMet-----GlyAsnGly 225
 Db 888 CTACTCTCAAGGAGGTGATGAGTCTGGTTACAGATTTTCTACTCGGACGAGATGGA 947
 Qy 226 AlaLeuHisGlyAspHisGlnArgPheSerThrPheAlaGlyPheLeuPhe 243
 Db 948 CTCCTCTACGACCTTATTGGACCGACAGCCTGTTACCGGCTTCTCATCTAC 1001

RESULT 28
 AAC99677
 ID AAC99677 standard; cDNA; 1107 BP.

XX AC AAC99677;
 DT 08-MAR-2001 (first entry)
 XX DE Skin cell cDNA, SEQ ID NO: 217.
 XX KW Rat; skin cell; cytostatic; antiinflammatory; anti-HIV;
 KW nootropic; neuroprotective; vulnerary; immunomodulatory; vaccine;
 KW keratinocyte growth stimulation; cancer; angiogenesis inhibition;
 KW inflammation; neurological disease; ss.

XX OS Rattus sp.
 XX PN WO200069884-A2.
 XX PD 23-NOV-2000.
 XX PF 15-MAY-2000; 2000WO-NZ00075.
 XX PR 14-MAY-1999; 99US-0312283.
 XX PA (GENE-) GENESIS RES & DEV CORP LTD.
 XX PI Watson JD, Strachan L, Onrust R, Sleeman M, Kumble KD, Murison JG;
 DR WPI; 2001-007495/01.
 DR P-PSDB; AAB55958.

XX New isolated polynucleotide used in the identification of genetic
 PT disorders and encoding polypeptides used for treating inflammatory
 PT disease, cancer and neurological diseases -

XX Claim 1; Page 186; 352pp; English.
 XX The present polynucleotide encodes a polypeptide which is expressed in
 CC mammalian skin cells. The polypeptide is useful for stimulating
 CC keratinocyte growth and motility, inhibiting the growth of cancer cells,
 CC modulating angiogenesis, inhibiting angiogenesis and vascularisation of
 CC tumours, modulating skin inflammation, stimulating the growth of
 CC epithelial cells, inhibiting the binding of human immunodeficiency virus
 CC (HIV)-1 to leukocytes, and treating inflammatory disease, cancer and
 CC neurological diseases. The polynucleotide can be used as a marker, in
 CC the identification of genetic disorders, and for the design of
 CC oligonucleotides for examining expression patterns.

XX SQ Sequence 1107 BP; 273 A; 298 C; 328 G; 208 T; 0 other;

Alignment Scores:

Pred: No.:	3.28e-16	Length:	1107
Score:	316.00	Matches:	86
Percent Similarity:	42.62%	Conservative:	41
Best Local Similarity:	28.86%	Mismatches:	89
Query Match:	23.12%	Indels:	82
DB:	22	Gaps:	12

US-10-036-041-2 (1-246) x AAC99677 (1-1107)

Qy 6 LeuIleTyrTrpGlnLeuLeuAlaLeuPhePheLeuProPheCysLeuCysGlnAspGlu 25
 Db 174 ATGATCTCTCGATGCTCTTGGCTGT---GCCCTTCG-----TGTCTGCTGAC 221
 Qy 26 TyrMet-----GluSerProGlnThrGlyGlyLeuProProAspCys 39
 Db 222 CCATGTCTGCTGCTTGTCTCGCAGGACITCCAGAAGGTTGGTCTCACTGCTGTGC 281
 Qy 40 SerLysCysCysHisGlyAspTyrSerPheArgGlyTyrGlnGlyProProGlyProPro 59
 Db 282 AGT-----CTGCCCTGGTCCCAAGGCCACCT 308
 Qy 60 GlyProProGlyIleProGlyAsnHisGlyAsnAsnGlyAsnGlyAlaThrGlyHis 79
 Db 309 GGCCCTCCAGGACGACAGGATCTCAGGAATGTTGGGAAGATGGTTTCTTCTGTAAG 368
 Qy 80 GluGlyAlaLysGlyGlyLysGlyAsp----- 91
 Db 369 GATGCCAAGACGCGCAGGACGAGCGGAGGACAGTGGAGAGAAGAGTCCACCTGC 428
 Qy 92 -----Leu 92
 Db 429 AGGACAGCAACCGAGGAAACAAAGGACCAAGCTGGGCCATTTGGGAGAGC 488
 Qy 93 GlyProArgGlyGluArg-----GlyGln 100
 Db 489 GGTCTCTCGAGGACCAAGGGGTCTAGTGTACCCCGGAAACATGTTATACGGCAAG 548
 Qy 101 HisGlyProLysGlyGlyLysGlyTyrProGlyIlePro----- 113
 Db 549 AAGGACCTAAGGCAAGAAAGGGAACCTGGGCTCCAGGCCCTGTAGTCTGGCAGT 608
 Qy 114 ProGluLeuGlnIleAlaPheMetAlaSerLeuAlaThrHisPheSerAsnGlnAsnSer 133
 Db 609 AGCCGAGCAAGTCGCTGCTTTCGGTGGCGTTAACCAAGAGTTACCCACGTGAGCGACTG 668
 Qy 134 GlyIleIlePheSerSerValGluThrAsnIleGlyAsnPhePheAspValMetThrGly 153
 Db 669 CCCATCAAGTTTGACAAGATTCTGATGAATGAGGAGGCCACTACAATCATCCAGTGC 728
 Qy 154 ArgPheGlyAlaProValSerGlyValTyrPhePheThrPheSerMetMet----- 170
 Db 729 AAGTTCTGCTCGCAGCTGCCAGGATCTATTACTTACCTATGACATTCAGCTGGCCAAC 788
 Qy 171 LysHisGluAspValGluValTyrValTyrLeuMetHisAsnGlyAsnThrValPhe 190
 Db 789 AAACAC-----CTGGCCATCGGCTAGTGCACAAATGGCCAG-----TAC 827
 Qy 191 SerMetTyrSerTyrGluMetLys---GlyLysSerAspThrSerSerAsnHisAlaVal 209
 Db 828 CGCATTCGGACTTTTGACGGCAACACCGGCAACCGAGCTGGGCTCCACCATC 887
 Qy 210 LeuLysLeuAlaLysGlyAspGluValTrpLeuArgMet-----GlyAsnGly 225
 Db 888 CTACTCTCAAGGAGGTGATGAGTCTGGTTACAGATTTTCTACTCGGACGAGATGGA 947
 Qy 226 AlaLeuHisGlyAspHisGlnArgPheSerThrPheAlaGlyPheLeuPhe 243
 Db 948 CTCCTCTACGACCTTATTGGACCGACAGCCTGTTACCGGCTTCTCATCTAC 1001
 RESULT 29
 ABL34829
 ID ABL34829 standard; cDNA; 1107 BP.
 XX AC ABL34829;
 XX DT 04-APR-2002 (first entry)
 XX DE Rat cDNA isolated from skin cells SEQ ID NO: 217.
 XX KW Human; rat; mouse; skin cell; skin wound; cancer; growth defect;
 KW developmental defect; inflammatory disease; dermatological; vulnerary;
 KW immunomodulator; anti-inflammatory; cytostatic; neuroprotective; gene;

KW SS.
 XX Rattus sp.
 XX WO200190357-Al.
 PN 29-NOV-2001.
 PD 24-MAY-2001; 2001WO-NZ00099.
 XX 24-MAY-2000; 2000US-206650P.
 PR 25-JUL-2000; 2000US-221232P.
 XX (GENE-) GENESIS RES & DEV CORP LTD.
 XX Watson JD, Strachan L, Sleeman M, Onrust R, Murison JG, Kumble KD;
 PI WPI; 2002-122020/16.
 XX New polynucleotides and polypeptides encoded by the polynucleotides
 PT isolated from skin cells, useful for treating skin wounds, cancers,
 PT growth and developmental defects, inflammatory diseases, or for
 PT modulating immune responses
 XX Claim 1; Page 161; 466pp; English.
 XX The present invention provides the protein and coding sequences of cDNAs
 CC isolated from human, murine and rat skin cell libraries. The sequences
 CC can be used in the development of therapeutic agents useful in the
 CC treatment of skin diseases, including skin wounds, cancer, growth
 CC defects, developmental defects and inflammatory diseases. The proteins
 CC have important roles in the induction of hair growth, cell proliferation
 CC and cell-cell interaction, in maintaining tissue integrity, in wound
 CC healing and in modulating immune responses. The present sequence is a
 CC cDNA of the invention.
 XX SQ Sequence 1107 BP; 273 A; 298 C; 328 G; 208 T; 0 other;
 Alignment Scores:
 Pred. No.: 3.28e-16 Length: 1107
 Score: 316.00 Matches: 86
 Percent Similarity: 42.62% Conservative: 41
 Best Local Similarity: 28.86% Mismatches: 89
 Query Match: 23.12% Indels: 82
 DB: 24 Gaps: 12
 US-10-036-041-2 (1-246) x ABL34829 (1-1107)
 Qy 6 LeuLeuTyrTrpGlnLeuLeuAlaLeuPheLeuProPheCysLeuCysGlnAspGlu 25
 Db 174 ATGATCTCTGGATGCTCTGGCCCTGT---GCCCTTCG-----TGCTGCTGAC 221
 Qy 26 TyrMet-----GluserProGlnThrGlyGlyLeuProProAspCys 39
 Db 222 CAATGCTGTGGTCTGTCGCGAGGACTTCCAGAGGGTGGTCCCACTGCTGTGC 281
 Qy 40 SerTysCysCysHisGlyAspTyrSerPheArgGlyTyrGlnGlyProProGlyPro 59
 Db 282 AGT-----CTGCTGTGTCCTCCCAAGGCCACCT 308
 Qy 60 GlyProProGlyTleProGlyAsnHisGlyAsnGlnGlyAsnGlnGlyAlaThrGlyHis 79
 Db 309 GGCCTCCAGGACGACAGGATCTCAGGAATGTTGGGAAGTGGTTCCTGCTGTAAG 368
 Qy 80 GluGlyAlaLeuGlyGlyAspGlyAsp----- 91
 Db 369 GATGCCCAAGACGGCCAGGACGAGACCGGGGACAGTGGAGAGAAGTCCACCTGGC 428
 Qy 92 -----Leu 92
 Db 429 AGGACGACACCGAGGAACACAGGACCAAGGCAAGCTGGGGCCATTGGGAGACGG 488
 Qy 93 GlyProArgGlyGluArg-----GlyGln 100

Db 489 GGTCTCTCGAGGACCCCAAGGGGCTCAGTGCTACCCCGGAACATGGTATATACCGGCAAG 548
 Qy 101 HisGlyProLysGlyGlyLysGlyTyrProGlyIlePro-----7-----113
 Db 549 AAGGGACCTAAGGGCAAGAAAGGGGAACCTGGGCTCCCGAGCCCTCTAGCTGCGCAGT 608
 Qy 114 ProGluLeuGlnIleAlaPheMetAlaSerLeuAlaThrHisPheSerAsnGlnAsnSer 133
 Db 609 ACCGAGCCCAAGTCGGCTTTTCGGTGGCGGTAAACCAAGAGTTACCCAGGTGAGGACTG 668
 Qy 134 GlyIleIlePheSerSerValGluThrAsnIleGlyAsnPhePheAspValMetThrGly 153
 Db 669 CCATCAAGTTTTCACAAGATTCTGATGAATGAGGAGGCCACTACATCATCCAGTGC 728
 Qy 154 ArgPheGlyAlaProValSerGlyValTyrPhePheThrPheSerMetMet-----170
 Db 729 AAGTTCTGCTGCAGCGTCGCGGATCTATTACTTACTATGATGACATTACGCTGCCAAC 788
 Qy 171 LysHisGluAspValGluGluValTyrValTyrLeuMetHisAsnGlyAsnThrValPhe 190
 Db 789 AAACAC-----CTGCCATCGCCCTAGTGCACATGGCCAG-----TAC 827
 Qy 191 SerMetTyrSerTyrGluMetLys---GlyLysSerAspThrSerSerAsnHisAlaVal 209
 Db 828 CGCATTCGGACTTTTGACGCCAACACCGCAACACGACGCTGGGCTCGGCTCCACCATC 887
 Qy 210 LeuLysLeuAlaLysGlyAspGluValTrpLeuArgMet-----GlyAsnGly 225
 Db 888 CTAGCTCTCAAGGAGGGTGATGAAGTCTGGTTACAGATTTTCTACTCGAGCAGAATGGA 947
 Qy 226 AlaLeuHisGlyAspHisGlnArgPheSerThrPheAlaGlyPheLeuPhe 243
 Db 948 CTCCTCTAGACCCCTATTGGACCGACAGCTGTTCCACCGGCTTCTCTATCTAC 1001
 RESULT 30
 AAD16350
 ID AAD16350 standard; DNA; 870 BP.
 XX AC AAD16350;
 DT 19-NOV-2001 (first entry)
 DE Human SBHACRP30a gene #1.
 XX KW Human; Alzheimer's disease; amyotrophic lateral sclerosis;
 KW ALS; Zollinger-Ellison syndrome; immune system disease; schizophrenia;
 KW inflammation; haematopoietic disease; anxiety; feeding disorder; aging;
 KW anorexia; depression; cardiovascular disease; sleep disorder; seizure;
 KW memory alteration; migraine; stroke; asthma; neuropathy; hypoglycaemia;
 KW sexual disorder; growth abnormality; infection; autoimmune disease;
 KW rheumatoid arthritis; cataractogenesis; angiogenesis; atherosclerosis;
 KW cerebral ischaemia; cirrhosis; Huntington's disease; Hodgson's disease;
 KW hypercholesterolaemia; headache; amnesia; cardiac arrhythmia; obesity;
 KW diabetes mellitus; glomerulonephritis; renovascular hypertension;
 KW cancer; vaccine; gene therapy; SBHACRP30a gene; ds.
 XX OS Homo sapiens.
 FH Key Location/Qualifiers
 CDS 1..870
 FT /*tag= a
 FT /product= "Human SBHACRP30a protein #1"
 FT /transl_except= (pos:235..243, aa:Ala-Leu)
 XX WO200160850-A1.
 PN 23-AUG-2001.
 PD 14-FEB-2001; 2001WO-US04703.
 PF 14-FEB-2000; 2000US-0182172.
 PR 29-FEB-2000; 2000US-0186084.
 PR

PR 18-APR-2000: 2000US-0198583.
 PR 04-OCT-2000: 2000US-0237963.
 PA (SMK) SMITHLINE BEECHAM CORP.
 PA (SMK) SMITHLINE BEECHAM PLC.
 XX
 PI Agarwal P, Kabnick KS, Murdoch PR, Rizvi SK, Smith RF, Xiang Z;
 XX
 DR WPI: 2001-536566/59.
 DR P-PSDB: AAE09443.
 XX
 PT New secreted and membrane associated polypeptides for treating
 PT Alzheimer's disease, psoriasis, cancer, enterocolitis, sleep and sexual
 PT disorders, stroke, and asthma
 XX
 PS Claim 2; Page 41; 94pp; English.
 CC
 CC The present sequence is a gene encoding human SBHCRP30a protein,
 CC a secreted protein of the invention.
 CC The invention relates to secreted and membrane associated polypeptides
 CC and nucleic acid molecules encoding such polypeptides. Sequences of the
 CC invention are useful for treating diseases such as Alzheimer's disease,
 CC amyotrophic lateral sclerosis (ALS), Zollinger-Ellison syndrome, diseases
 CC of the immune system, haematopoietic disease, inflammation, anxiety,
 CC schizophrenia, feeding disorders, anorexia, depression, social, sexual
 CC and rewarded behaviour, cardiovascular disease, sleep disorder, learning
 CC and memory alteration and altered immune response, seizure, migraine,
 CC cancer, stroke, asthma, neuropathy, aging, sexual disorders, treatment
 CC of transsexuals, growth abnormalities, obesity, infections, autoimmune
 CC diseases (e.g. rheumatoid arthritis), cataractogenesis, angiogenesis,
 CC disorders associated with healthy maintenance of gastric mucosa and
 CC repair of acute and chronic mucosal lesion, lung carcinoma, cerebral
 CC ischaemia, atherosclerosis, cirrhosis, Huntington's disease, headache,
 CC amnesia, multiple sclerosis, Hodgson's disease, dilated cardiomyopathy,
 CC congestive heart failure, cardiac arrhythmias, hypercholesterolaemia,
 CC viral and non-viral hepatitis, type I and type II diabetes mellitus,
 CC glomerulonephritis, renovascular hypertension, hypoglycaemia, periodic
 CC paralyses, tendinitis and malignant hyperthermia. Polypeptides of the
 CC invention are used to identify membrane bound and soluble receptors.
 CC They are also useful as vaccines for inducing an immunological response
 CC in a mammal. Polynucleotides of the invention are used in gene therapy.
 CC They are also valuable for chromosome localisation studies and tissue
 CC expression studies.
 XX
 SQ Sequence 870 BP; 239 A; 200 C; 237 G; 194 T; 0 other;

Alignment Scores:
 Pred. No.: 2.98e-16 Length: 870
 Score: 315.00 Matches: 86
 Percent Similarity: 41.26% Conservative: 32
 Best Local Similarity: 30.07% Mismatches: 96
 Query Match: 23.04% Indels: 72
 DB: 22 Gaps: 9

US-10-036-041-2 (1-246) x AAD16350 (1-870)

Qy 14 LeuPhePheCysLeuPheCysGlnAspGluTyrMetGluSerProGlnThrGly 33
 Db 13 CTCATGTTACAAAGTTTCCCATTTGTCAGTGACACACCCGGGGTAATCAGTTGAAA 72
 Qy 34 GlyLeuProProAspCysSerLysCysCysHisGlyAspTyrSerPheArgGlyTyrGln 53
 Db 73 GGAGAGAACTACTCCCGCCAGGTATATCTGC-----AGCATCTCGCTTGCCCT 120
 Qy 54 GlyProGlyProGlyProGlyProGlyProGlyProGlyProGlyProGlyProGlyProGly 73
 Db 121 GGACCTCCAGGGCCCGCCGAGCAAAATGTTCCCTCGCCGCCCGCCCGCCCGCCCGCCCG 180
 Qy 74 AsnGlyAlaThrGlyHisGluGlyAlaLysGlyGlyGlyGlyGlyGlyGlyGlyGlyGly 88
 Db 181 CCAGGAGAGATGGTAGACACCGCAGGAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
 Qy 88 ----- 88

Db 241 TTGAGAGTAAAGACTGGACCGCTAGGTCTTCCCGTGTAGAAAGGGAGGACCAAGAGAGACT 300
 Qy 89 -----LysGlyAspLeuGlyProArgGlyGluAlaGlyGlyGlyGlyGlyGlyGlyGly 103
 Db 301 GGAAGAAGAGCCATAGGACCAAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
 Qy 104 -----LysGlyGlyLysGlyTyrProGlyLysProGlyLysProGlyLysProGly 114
 Db 361 CCTGACCAAGAGGAG 420
 Qy 115 -----GluLeuGlnIleAlaPheMetAlaSerLeuAlaThrHisPheSerAsn 130
 Db 421 TGTGAAGCATCGTCTCAATCCCGCTTTCTGTGGCATCACACCAAGCTACCCAGAA 480
 Qy 131 GlnAsnSerGlyIlePheSerValGluThrAsnIleGlyAsnPhePheAspVal 150
 Db 481 GAAAGACTACCTATTATTTAAACAAGTCTCTTCAACGAGGAGAGAGAGAGAGAGAGAG 540
 Qy 151 MetThrGlyArgPheGlyAlaProValSerGlyValTyrPhePheThrPheSerMetMet 170
 Db 541 GCCACAGGAGAGTTCATCTGTCTTCCAGGAGATCTATTACTTTTATGATATCACA 600
 Qy 171 -----LysHisGluAspValGluGluValTyrValTyrLeuMetHisAsnGlyAsn 187
 Db 601 TTGGCTAATAAGCAT-----CTGGCAATCGGACTGTACACATGGG--- 642
 Qy 188 ThrValPheSerMetTyrSerTyrGluMetLys-----GlyLysSer 201
 Db 643 -----CAATACCGGATAAAGACTTCGACGCCCAACACAGCAAAACCAT 684
 Qy 202 AspThrSerSerAsnHisAlaValLeuLysLeuAlaLysGlyAspGluValTrpLeuArg 221
 Db 685 GATGTGGCTTCGGGTCCACACTCATCTATCTGCAGCCAGAGATCAAGTCTGGTGGAG 744
 Qy 222 Met-----GlyAsnGlyAlaLeuHisGlyAspHisGlnArgPheSerThrPhe 237
 Db 745 APTTCTTCACAGACCAAGATGGCTTCTTCAGACCCAGGTTGGCAGACAGCTTATTTC 804
 Qy 238 AlaGlyPheLeuPhePhe 243
 Db 805 TCCGGGTTTCTCTTATAC 822

Search completed: March 13, 2003, 18:19:54
 Job time : 280 secs

CC The present sequence is one of a large number of 5' ESTs derived from
CC mRNAs encoding secreted proteins. An ORF has been identified within the
CC sequence. The 5' ESTs were prepared from total human RNAs or polyA+
CC derived from 30 different tissues. EST sequences usually correspond
CC mainly to the 3' untranslated region (UTR) of the mRNA because they are
CC often obtained from oligo-dT primed cDNA libraries. Such ESTs are not
CC well suited for isolating cDNA sequences derived from the 5' ends of
CC mRNAs and even in those cases where longer cDNA sequences have been
CC obtained, the full 5' UTR is rarely included. 5' ESTs are derived from
CC mRNAs with intact 5' ends and can therefore be used to obtain full length
CC cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic,
CC gene therapy and chromosome mapping procedures. They are used to obtain
CC upstream regulatory sequences and to design expression and secretion
CC vectors.

XX
SQ Sequence 471 BP; 107 A; 130 C; 134 G; 99 T; 1 other;
Query Match 26.4%; Score 452; DB 21; Length 471;
Best Local Similarity 99.6%; Pred. No. 4.4e-121;
Matches 452; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGCATCTGCCCGAGGAGACACGCTCTCGAGCTCTGCTCTTCTCAGGAGACTCTGA 60
DB 12 GGCATCTGCCCGAGGAGACACGCTCTCGAGCTCTGCTCTTCTCAGGAGACTCTGA 71
QY 61 GGCTCTGTGAGATCATGCTTTGGAGCAGCTCATCTATTGGCAACTGCTGGCTTTGTT 120
DB 72 GGCTCTGTGAGATCATGCTTTGGAGCAGCTCATCTATTGGCAACTGCTGGCTTTGTT 131
QY 121 TTTCTCTCTCTTTTGGCTGTCTGAAGATGAATACATGAGTCTCCACAAACCGGAGGACT 180
DB 132 TTTCTCTCTCTTTTGGCTGTCTGAAGATGAATACATGAGTCTCCACAAACCGGAGGACT 191
QY 181 ACCCCAGACTGCAGTAAGTCTGTCTATGAGACTACAGCTTTTCGAGGCTACCAAGGCC 240
DB 192 ACCCCAGACTGCAGTAAGTCTGTCTATGAGACTACAGCTTTTCGAGGCTACCAAGGCC 251
QY 241 CCCTGGGCGCCCGGCGCTCTGCTATTCAGGAACCATGGAACATGGAACATGGAACATG 300
DB 252 CCCTGGGCGCCCGGCGCTCTGCTATTCAGGAACCATGGAACATGGAACATGGAACATG 311
QY 301 AGCCACTGCTCATGAGGAGCAAAAGGTGAGAGGGCCACAAAGTACCTGGGCGCTCG 360
DB 312 AGCCACTGCTCATGAGGAGCAAAAGGTGAGAGGGCCACAAAGTACCTGGGCGCTCG 371
QY 361 AGGGAGCGGGGCGGAGCATGGCCCCAAAGAGAGAGAGGGCTACCCGGGGATTCCACCAGA 420
DB 372 AGGGAGCGGGGCGGAGCATGGCCCCAAAGAGAGAGAGGGCTACCCGGGGATTCCACCAGA 431
QY 421 ACTTCAGATTGCATTCATGGCTTCTCTGGCAACC 454
DB 432 ACTTCAGATTGCATTCATGGCTTCTCTGGCAACC 465

AA39551 standard; DNA; 472 BP.
AA39551
AA39551
17-SEP-
AB5678
21-JUN-1999 (first entry)
Human secreted protein 5' EST SEQ ID NO 149.
Human; secreted protein; EST: expressed sequence tag; diagnosis;
forensic; gene therapy; chromosome mapping; signal peptide;
protein regulatory sequence; cytokine activity; cell proliferation;
differentiation; haematopoiesis regulation; tissue growth regulation;
proliferative hormone regulation; chemotactic; chemokinetic; haemostatic;
thrombolytic; anti-inflammatory; tumour inhibition; ds.
no sapiens.

PN W0906551-A2.
XX
PD 11-FEB-1999.
XX
PF 31-JUL-1998; 98WO-IB01235.
XX
PR 01-AUG-1997; 97US-0905133.
XX
PA (GEST) GENSET.
PI Duclert A, Dumas Milne Edwards J, Lacroix B;
XX WPI; 1999-153781/13.
DR P-PSDB; AAY11485.
XX
PT New nucleic acids encoding human secreted - proteins obtained from
PT cDNA libraries prepared from substantia nigra, cerebellum, surrenals
PT and fetal brain tissue
XX
PS Claim 1; Page 263; 434pp; English.
XX
CC AAX39440 to AAX39597 represent 5' expressed sequence tags (ESTs) for
CC human secreted proteins, and encode the proteins given in AAY11374 to
CC AAY11531, respectively. The proteins given represent the signal peptide
CC and an N-terminal fragment of a secreted protein. The nucleic acid
CC sequences can be used for producing secreted human gene products. They
CC can also be used to develop products for diagnosis and therapy. The
CC proteins obtained may have cytokine activity, cell
CC proliferation/differentiation activity, haematopoiesis regulating
CC activity, tissue growth regulating activity, reproductive hormone
CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
CC activity, tumour inhibition activity or other activities. The products
CC can be used in forensic, gene therapy and chromosome mapping procedures.
CC The sequences can also be used for obtaining corresponding promoter
CC sequences. The nucleic acids encoding the signal peptide can be used for
CC directing extracellular secretion of a polypeptide or the insertion of a
CC polypeptide into a membrane, or importing a polypeptide into a cell.
XX
SQ Sequence 472 BP; 108 A; 130 C; 134 G; 99 T; 1 other;

Query Match 26.4%; Score 452; DB 20; Length 472;
Best Local Similarity 99.6%; Pred. No. 4.4e-121;
Matches 452; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGCATCTGCCCGAGGAGACACGCTCTCGAGCTCTGCTCTTCTCAGGAGACTCTGA 60
DB 13 GGCATCTGCCCGAGGAGACACGCTCTCGAGCTCTGCTCTTCTCAGGAGACTCTGA 72
QY 61 GGCTCTGTGAGATCATGCTTTGGAGCAGCTCATCTATTGGCAACTGCTGGCTTTGTT 120
DB 73 GGCTCTGTGAGATCATGCTTTGGAGCAGCTCATCTATTGGCAACTGCTGGCTTTGTT 132
QY 121 TTTCTCTCTCTTTTGGCTGTCTGAAGATGAATACATGAGTCTCCACAAACCGGAGGACT 180
DB 133 TTTCTCTCTCTTTTGGCTGTCTGAAGATGAATACATGAGTCTCCACAAACCGGAGGACT 192
QY 181 ACCCCAGACTGCAGTAAGTCTGTCTATGAGACTACAGCTTTTCGAGGCTACCAAGGCC 240
DB 193 ACCCCAGACTGCAGTAAGTCTGTCTATGAGACTACAGCTTTTCGAGGCTACCAAGGCC 252
QY 241 CCCTGGGCGCCCGGCGCTCTGCTATTCAGGAACCATGGAACATGGAACATGGAACATG 300
DB 253 CCCTGGGCGCCCGGCGCTCTGCTATTCAGGAACCATGGAACATGGAACATGGAACATG 312
QY 301 AGCCACTGCTCATGAGGAGCAAAAGGTGAGAGGGCCACAAAGTACCTGGGCGCTCG 360
DB 313 AGCCACTGCTCATGAGGAGCAAAAGGTGAGAGGGCCACAAAGTACCTGGGCGCTCG 372
QY 361 AGGGAGCGGGGCGGAGCATGGCCCCAAAGAGAGAGAGGGCTACCCGGGGATTCCACCAGA 420
DB 373 AGGGAGCGGGGCGGAGCATGGCCCCAAAGAGAGAGAGGGCTACCCGGGGATTCCACCAGA 432

Mar 14

421 ACTTCAGATTGCATCATCGCTTCTGTGCAACC 454
|||||
433 ACTTCAGATTGCATCATCGCTTCTGTGMAACC 466

RESULT-26
ABV56781
ID ABV56781 standard; cDNA; 472 BP.
AC ABV56781;
OT 17-SEP-2002 (first entry)
XX Human prostate expression marker cDNA 56772.
XX Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KW pharmacogenomic marker; gene; ss.
XX Homo sapiens.
XX WO200160860-A2.
XX 23-AUG-2001.
XX 20-FEB-2001; 2001WO-US05171.
XX 17-FEB-2000; 2000US-183319P.
PR 16-MAR-2000; 2000US-189862P.
PR 25-MAY-2000; 2000US-207454P.
PR 09-JUN-2000; 2000US-211314P.
PR 18-JUL-2000; 2000US-219007P.
PR 13-DEC-2000; 2000US-255281P.
XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
PA Schlegel R, Endege WO, Monahan JE;
PI WPT: 2001-662795/76.
DR Novel isolated nucleic acid molecule associated with cancerous state of
XX prostate cells and correlating with presence of prostate cancer, useful
XX for detecting presence of prostate cancer, stage of prostate cancer -
PS Claim 1; Page 10943; 11750pp; English.

The invention relates to an isolated nucleic acid molecule (I) comprising
CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
CC specification or its complement. (I) is useful for:
CC (a) assessing whether a patient is afflicted with prostate cancer;
CC (b) monitoring the progression of prostate cancer in a patient;
CC (c) assessing the efficacy of a test compound to inhibit prostate
CC cancer in a patient;
CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
CC in a patient;
CC (e) selecting a composition for inhibiting prostate cancer in a patient;
CC (f) assessing the prostate cell carcinogenic potential of a compound;
CC (g) determining whether prostate cancer has metastasized in a patient;
CC (h) assessing the aggressiveness or indolence of prostate cancer in a
CC patient;
CC (I) is also useful as a pharmacodynamic or pharmacogenomic marker.

XX Sequence 472 BP; 141 A; 105 C; 92 G; 134 T; 0 other;

Query Match 20.2%; Score 345.6; DB 23; Length 472;
Best Local Similarity 87.7%; Pred. No. 4.4e-90;
Matches 400; Conservative 0; Mismatches 54; Indels 2; Gaps 2

QY 587 AAGCATGAGGATGTGGAGAGTAGTGTTGTGTACCTATGTCACAATGG-CAACACAGT-CT 644
|||A|||||
Db 17 AACCATGAGGATGTGGAGGAAGTGTTCCTTATGCAAAATGGCCAACAGTCT 76
|||||

QY 645 TCACATGTCAGCTATCAATGAGGCCAAATCAGATCATCCAGCAATCATGCTGTGC 704
|||||

1 MetLeuTrpArgGlnLeuIleTyrTrpGlnLeuLeuAlaLeuPheLeuProPheCys 20
|||
89 ATGCTTTGGAGCAGCTCATCTATGGCACTGCTGGCTTTGTTTTCCTCCCTTTTTC 148

QY	21	LeuCysGlnAspGluTyrMetGluSerProGlnThrGlyGlyLeuProProAspCysSer	40
DB	149	CTGTGTCGAAGATGAATACATGGAGTCTCCACAACCGAGGACTACCCCAGACTGCAGT	208
QY	41	LysCysCysHisGlyAspTyrSerPheArgGlyTyrGlnGlyProProGlyProProGly	60
DB	209	AAGTGTTGTCATGAGACTACAGCTTTCGAGGCTACCAAGGCCCCCTGGGCCACC	268
QY	61	ProProGlyIleProGlyAsnHisGlyAsnAsnGlyAsnAsnGlyAlaThrGlyHisGlu	80
DB	269	CCTCCTGCATTCCAGAAACCATGGAACATGGCACATGGAGCCACTGGTCATGAA	328
QY	81	GlyAlaLysGlyGluLysGlyAspLysGlyAspLeuGlyProArgGlyGluArgGlyGln	100
DB	329	GGAGCCAAGGTGAGAAGGGCGACAAGGTGACCTGGGGCCTCGAGGGAGCGGGGCAG	388
QY	101	HisGlyProLysGlyGluLysGlyTyrProGlyIleProProGlyLeuGlnIleAlaPhe	120
DB	389	CATGGCCCCAAGGAGAGAAGGGCTACCCGGGGATTCACCAGAACTTCAGATTGCATTC	448
QY	121	MetaLaserLeuAlaThrHisPhe	128
DB	449	ATGGCTTCTCTGGM-ACCCACTTC	471
RESULT	25		
ID	AAF93419		
XX	AAF93419 standard; cDNA; 546 BP.		
AC	AAF93419;		
DT	21-MAY-2001 (first entry)		
DE	cDNA encoding SRT protein isolated from prostate tissue SEQ ID 240.		
KW	Human; SRT; gene therapy; gene mapping; tissue typing; ss.		
OS	Homo sapiens.		
PN	WO200107611-A2.		
PD	01-FEB-2001.		
PF	21-JUL-2000; 2000WO-US200006.		
PR	26-JUL-1999; 99US-0145701.		
PA	(GETH) GENENTECH INC.		
PI	Baker KP, Goddard A, Wood WI;		
PS	WPT; 2001-112729/12.		
PP	New isolated nucleic acid molecule encoding a SRT polypeptide is useful		
PPT	for production of recombinant SRT polypeptides, gene mapping,		
PPT	diagnosing genetic disorders and for gene therapy		
PPS	Claim 2; Fig 240; 663pp; English.		
CCC	Sequences AAF93180 - AAF93743 represent polynucleotide sequences encod-		
CCC	ing human SRT proteins. The cDNA sequences are isolated from various		
CCC	different human tissue cDNA libraries. The invention relates to a met-		
CCC	hod for detecting cDNA encoding an SRT protein, a vector containing cDNA		
CCC	encoding SRT, a host cell transformed with the vector, an isolated SRT		
CCC	polypeptide, and an antibody which binds to SRT. The polynucleotide		
CCC	sequence can be used in gene therapy and is useful in the recombinant		
CCC	production of SRT polypeptides, as a hybridisation probe to screen		
CCC	libraries to isolate cDNAs with sequence identity to SRT polypeptides		
CCC	map the gene encoding the SRT polypeptides and analysing genetic		
CCC	disorders, tissue typing and disease tissue detection. The SRT		
CCC	polynucleotide sequences can be used in polymerase chain reaction,		
CCC	screening for new therapeutic molecules and generation of antisense R		
CCC	and DNA.		